

Aryabhata:

Aryabhatiya with the Commentary of Bhaskara I and Someavara.

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description: multibyte sequence:

long a ā

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vocalic r	r̥
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long vocalic r	r̥̄
vocalic l	l̥
long vocalic l	l̥̄
velar n	n̥
velar N	N̥
palatal n	ñ̥
palatal N	Ñ̥
retroflex t	t̥
retroflex T	T̥
retroflex d	d̥
retroflex D	D̥
retroflex n	n̥
retroflex N	N̥
palatal s	ś̥
palatal S	Ś̥
retroflex s	s̥
retroflex S	S̥
anusvara	ṁ̥
visarga	h̥
long e	ē
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l underbar	l̄
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t

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Āryabhaṭakṛtam

Āryabhaṭīyam

Bhāskara-viracita-bhāṣyopetam

Gītikāpādah

[maṅgalācaraṇam]

yasmāt aśeṣajagatām prabhavam sthitim ca
saṃhāram api upadiśanti samagrādhīkāḥ |

bhr̥gvaṅgirahprabhṛtayah̄ vidiṭāntarāyāḥ
tasmai namaḥ kamalajāya caturmukhāya |

atha aśeṣajagadanugrahāya ācāryāryabhaṭamukhāravindavinissṛta-daśagītikā-
sūtravyākhyānam ārabhyate | tasya eva aśeṣavighnanirākaraṇāya
sarvavidyāprabhavasya bhagavataḥ kamalayoneḥ
praṇāmaprakrāntaśāstravastuparigrahāya āryām ādau prayuktavān ā

praṇipatya ekam anekam kam satyām devatām param brahma |
āryabhaṭaḥ trīṇi gadati gaṇitam kālakriyām golam || 1 ||

asyāḥ padavibhāgah: ā praṇipatya, ekam, anekam, kam, satyām, devatām, param,
brahma, āryabhaṭaḥ, trīṇi, gadati, gaṇitam, kālakriyām, golam |

atra praṇipatya iti "pra"-śabdaḥ prakarṣavācī, prakarṣeṇa nipatya praṇipatya,
praṇāmam kṛtvā iti arthaḥ | ktvāpratyayena pūrvakālakriyā abhidhīyate, yathā snātvā
bhuṇkte iti | snānakriyā anantaram bhojanakriyā | evam atra api praṇipatanānantaram
gaṇitam, kālakriyām, golam ca gadati | ekam, abhedarūpeṇa vyavasthitam, nirvikāram |
anekam, na ekam anekam, bhedarūpeṇa vyavasthitam | kam, kah̄ iti prajāpateḥ
ākhyānam | kam praṇipatya evaṅguṇaviśiṣṭam
|

atha yadi asau prajāpatih ekaḥ katham asau anekah? yadi asau anekah katham ekaḥ?
ekānekayoh̄ parasparaviruddhayoh̄ yugapat ekatra avasthānam na sambhavati, yathā
atyantaviruddhayoh̄ cchāyā ātapayoh̄ uṣṇāśītayoh̄ vā iti | atra ucyate ā yathā vṛkṣah̄
ekavasturūpeṇa [tiṣṭhati], asau eva yadā mūla-skandha-śākhā-prarohādiprapañcena
vikalpyate tadā anekah | evam asau api paramātmā nirvikāraḥ nirañjanaḥ ekaḥ eva,

asau eva [yadā] anekaprāṇiśarīre vyavasthitah
vikalpyate [tadā] anekah | āha ca ā

ekaḥ eva hi bhūtātmā bhūte bhūte vyavasthitah |
ekadhā bahudhā ca eva dr̄syate jalacandravat ||
[amṛtabindūpaniṣat, ślo 12]

iti | athavā asau ekaḥ eva āśīt, tataḥ svayam ardhena puruṣah abhavat ardhena nārī iti |
tataḥ sarvān prāṇinah asṛjat iti | athavā asau bhagavān prajāpatih viśvarūpah | tasmāt
tasya viśvarūpatvāt ekānekatvam ekasmin yugapat sambhavati iti ayam adoṣah |

satyām devatām | devaḥ eva devatā, satyā ca devatā ca | sa eva kah satyatvena
devatātvena ca viśiṣyate | kam satyām devatām prāṇipatya | na kevalam satyatvena
devatātvena ca višeṣitah | kena ca tarhi iti āha ā param brahma | param ca tat brahma
param brahma | param śrūyate pulastyā-pulaha-kratvādikam | evam asau bhagavān
kah, satyā devatā, param brahma ca | kam, satyām devatām, param brahma ca
prāṇipatya |

atha katham kah śabdah pulliṅgah, satyā devatā strīliṅgah, param brahma
napuṁsakaliṅgah? taiḥ bhinnaliṅgaiḥ ekam vastu abhidhīyate | nanu ca atra sarvaiḥ
eva śabdaiḥ ekaliṅgaiḥ bhavitavyam? na iti āha | ete śabdāḥ āviṣṭaliṅgāḥ | taiḥ
āviṣṭaliṅgaiḥ śabdaiḥ ekam eva vastu abhibhīyate | yathā ā "kāraṇam iyam brāhmaṇī,
bhūtam iyam brāhmaṇī, āvapanam iyam uṣṭrikā" iti [aṣṭādhyāyī aī 4, pādah 1, sūtram 3,
pātañjalamahābhāṣyam, ākṣepavārtikah

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athavā brahmaṇoh dvayoh apy ācāryeṇa prāṇipātah kṛtaḥ, śabdabrahmaṇah

parabrahmaṇah ca | tayoḥ upavarṇanā iyam kriyate ā pranipatya iti |
nigadavyākhyānam evam ā ekam, pariṣṭānataḥ tu tattvasya abhedarūpatvāt, yasmāt
sarveṣu eva jñeyesu pariṣṭānāmātrasāmānyam ekam; anekam
ṛgyajuḥsāmātharvetihāsapurāṇaśikṣākalpavyākaraṇaniruktachandovicitijyotiṣam iti
ādiśabdarūpeṇa vyavasthitatvāt anekam | kah iti śabdabrahmaṇah ākhyānam | kam
ekam anekam
pranipatya | satyām devatām iti etat dvayoh brahmaṇoh śeṣaḥ, satyā devatā
śabdabrahma | uktam ca ā

jñānāntarabhāvi yat ca hi phalam jñātvā kriyā ataḥ ca yat
sarvasya avyabhicārikāraṇam iti jñānasthitau niścayah |
jñeyam ca aparimāṇam alpaviṣayaśrautādiśāstram punar
divyam cakṣuh atīndriye api viṣaye vyāhanyate na kvacit ||

param brahma | "param"-śabdaḥ prakarṣavācī | prakṛṣṭam brahma param brahma, yat
sarvaiḥ api muktivādibhiḥ prārthyate, mokṣadah paramātmā iti arthaḥ | evam ca dvayoh
brahmaṇoh praṇāmaḥ kṛtaḥ | anyatra api "brahma"-śabdena śabdabrahma-
parabrahmaṇoh eva grahaṇam | tad yathā ā

dve brahmaṇī veditavye śabdabrahma param ca yat |
śabdabrahmaṇī niṣṇātaḥ param brahma adhigacchati ||
[amṛtabindūpaniṣad, śloī 7; vāyupurāṇam, amśaḥ 6, aī 5, śloī 64]
iti |

athavā, pranipatya kam hiranyagarbham, ekānekaśvarūpam, sarvaprāṇinām mahat
nāma | tatra viśeṣaḥ ekam, tasya tasya yataḥ adhiṣṭhātṛdevatā hiranyagarbhaḥ ekaḥ
eva | yadā kāraṇānām adhiṣṭhātṛdevatāviśeṣabhedena vivakṣyate tadā anekam | tat

yathā ā trayodaśa kāraṇāni, tvacah vāyuh, caksuṣah sūryah, śrotrasyāḥ ākāśah,
rasanasyāḥ āpaḥ, ghrāṇasya pṛthivī, evam pañcānām buddhīndriyāṇām adhiṣṭhātryah
devatāḥ, vācaḥ agnih, pāneḥ indrah, pādasya
viṣṇuh, pāyunaḥ mitrah, upasthasya prajāpatih, evam karmendriyādhiṣṭhātryah
devatāḥ, manasah candraḥ, buddheḥ savitā, ahaṅkārasya rudraḥ iti | satyām devatām
antaryāminah īśvarasya bhagavataḥ paramātmanah kāraṇaśaktyā adhiṣṭhitāḥ sarve
eva padārthāḥ svārthe pravartante | atah tām paramātmanah kāraṇaśaktim satyām
devatām | atah eva strīliṅgena nirdeśah kṛtaḥ | param brahma yat tat adhikārī brahma
paramātmā tam | evam brahmatrayam pranipatya
| yadi evam, cakārah tarhi kartavyam | na kartavyam | antareṇa api cakāram ca arthaḥ
gamyate eva | tat yathā ā

bāle vṛddhe kṣate kṣīṇe kṣīram yuktyā prayojayet |

iti | bāle ca vṛddhe ca kṣate ca kṣīṇe ca iti gamyate | evam atra api ca arthaḥ, kam ca
satyām devatām ca param brahma ca iti |

āryabhaṭah ācāryasya samākhyānah | trīṇi gadati | trīṇi vastūni gadati iti | nanu atra
evam yuktam vaktum ā "āryabhaṭah aham trīṇi gadāmi" iti, anyathā anyasya kasyacit
etat vākyam ābhāti | yathā kiṃcit kaścit pṛcchati ā "rājakule kena kim uktam iti āha ā
evam ukte rājani evam devadatto bravīti | yajñadattah api evam eva nigadati" iti | tasmāt
tatra api āryabhaṭah trīṇi gadati iti, na tat ācāryasya vacanam iti | atra ucyate | ayam
ācāryah mahānubhāvah svayam
eva bruvan paratvam āpādyā kathayati, yathā āha kauṭilyah ā

sukhagrahaṇavijñeyam tattvārthapadaniścitam |
kauṭilyena kṛtam śāstram vimucya granthavistaram ||

[arthaśāstram, 1.1.19]

iti | athavā yaḥ tejasvī puruṣaḥ samareṣu nikṛṣṭāsitejovitānacchuritabāhuḥ
śatrusaṅghātām prakāśam praviṣya praharan evam āha ā "ayam asau uditaḥ
aditikulaprasūtaḥ samareṣu anivāritavīryaḥ yajñadattaḥ praharati | yadi kasyacit śaktih
pratipraharatu" iti | evam asau api ācāryaḥ gaṇitakālakriyāgolātiśaya jñānodadhipāragaḥ
vitsabhām avagāhya "āryabhaṭaḥ trīṇi gadati gaṇitam kālakriyām golam" iti uktavān |

gaṇitam kālakriyām golam | gaṇitam, kṣetracchāyāśreḍhīsamakaraṇakutṭākārādikam |
kālaḥ, prāṇavināḍīnāḍyāhorātrapakṣamāsasamvatsarayugādikam | tatparijñānārtham
kriyā kālakriyā | anye punaḥ kriyā avyatiriktam kālam etena abhyupagacchanti | teṣām
ayam vigrahaḥ ā kālaḥ ca asau kriyā ca kālakriyā | evam etau pakṣau ā kecit
kālam kriyāvyatiriktam manyante, anye kriyā eva kālaḥ iti | ubhayathāḥ asmākam
adoṣaḥ iti, yena asmadīye siddhānte

sūryodayāt prabhṛti yāvat aparaḥ sūryodayaḥ tāvat ahorātram, yaḥ ca
sūryācandramasoh paraḥ viprakarṣaḥ saḥ ardhamāsaḥ, yaḥ ca tayoḥ paraḥ
sannikarṣaḥ sa māsaḥ; evam dvādaśamāsaḥ samvatsaraḥ iti ayam kālaḥ,
kriyāvyatiriktaḥ vā astu kriyā vā iti | golam,

grahabhrāmaṇadharitrīsaṁsthānadarśanopāyam | gadati iti kartrvācakah śabdaḥ,
vākyatvāt | gaṇitakālakriyāgolānām dvitīyaikavacane nirdeśaḥ gaṇitam kālakriyām
golam iti gaṇitaśabdaḥ napuṁsakaliṅgam, kālakriyā
strīliṅgam, golāḥ pulliṅgam | eteṣām sāmānyopakramena napuṁsakaliṅgena eva
ācāryeṇa abhidhānam [kṛtam] "trīṇi gadati" iti |

atra ayam gaṇitaśabdaḥ aśeṣagaṇitābhidhāyī, tasmāt aśeṣagaṇitābhidhāyitvāt yathā
kṣetragaṇitam bravīti, evam grahaṇitam api; grahaṇitasya ca
kṣetrādyavyatiriktatvāt kālakriyāgolayoh ca gaṇitāvyatiriktatvāt gaṇitam nigadati iti

etāvat eva siddhe kālakriyāgolagrahaṇam kurvan ācāryah jñāpayati ā
kṣetracchāyāśreḍhīsamakaraṇakuṭṭākārādikam sāmānyagaṇitam kiṃcit vaksye,
viśeṣagaṇite punah kālakriyayā golena tātparyam iti | anyathā
aśeṣagaṇitābhidhāyigaṇitaśabdena eva siddhatvāt kālakriyāgolayoh pṛthaggrahaṇam
anāvaśyakam syāt | tathā ca, ācāryeṇa gaṇitapāde gaṇitavastu diñmātram eva
abhihitam, kālakriyāgolayoh kālakriyāgola [vastu] viśeṣena | avaśyam ayam arthah
abhyupagantavyah ā kiṃcit gaṇitam iti / anyathā hi mahat gaṇitavastu, aṣṭau
vyavahārāḥ miśraka-śreḍhī-kṣetra-khāta-citi-krākacika-rāśi-cchāyābhidhāyinah |
miśrakah iti sakalagaṇitavastusammiśrakah saṃsparśakah iti arthah
| śreḍhī iti ādyuttarapracitah iti arthah | kṣetram iti anekāśrikṣetraphalāni ānayati iti
arthah | khātah iti khanyapramāṇam nirdiśati iti arthah | citih iti iṣṭakāpramāṇena
uparinicitavastupramāṇam āvedayati iti arthah | krākacikam iti, krakacah nama
dārucchedakam, tasmin krakace bhavaḥ krākacikah, tadvastupramāṇam avagamayati
iti arthah | rāśih iti dhānyādirūpavastunicitam tadvastupramāṇam janayati iti arthah |
chāyā iti śāṅkvādicchāyāpramāṇena kālam kathayati
iti arthah | iti vyavahāragaṇitasya aṣṭābhidhāyinah catvāri bijāni
prathamadvitīyatṛtīyacaturthāni yāvat tāvat vargāvargaghanāghanaviśamāṇi | etat
ekaikasya granthalakṣaṇalakṣyam maskari-pūraṇa-mudgala-prabhṛtibhiḥ ācāryaiḥ
nibaddham kṛtam, sa katham anena ācāryeṇa alpena granthena śakyate vaktum | tat
suṣṭhu uktam asmābhiḥ kiṃcit gaṇitam viśeṣataḥ kālagolau iti | evam iyam āryā
vyākhyātā || 1||

[saṃkhyāvinyāse paribhāṣā]

yugabhaṇādisaṅkhyāsaṃkṣepam vivakṣuḥ ācāryah [pari]bhāṣāsūtrapradaśanāya
gītikāsūtram āha ā

vargākṣarāṇi varge avarge avargākṣarāṇi kāt ḥmau yaḥ |
khadvinavake svarāḥ nava varge avarge navānti avarge vā || 2 ||

asya gītisūtrasya padāni ā vargākṣarāṇi, varge, avarge, avargākṣarāṇi, kāt, ḥmau, yaḥ,
khadvinavake, svarāḥ, nava, varge, avarge, nava, atyantavarge, vā |

vargākṣarāṇi, vargākṣarāṇi kakārādīni makāraparyantāni | "te vargāḥ pañca pañca" iti
[kātantram, 1.1.10] | vargākṣaroccāraṇakrameṇa yā saṅkhyā abhidhīyate sā saṅkhyā
vargaśabdena ucyate, abhedopacārāt | ataḥ vargākṣarasāṅkhyā iti arthaḥ | sā varge,
varge iti gaṇitaśāstre viṣamasthānasyāḥ ākhyā, tasmin viṣamasthāne
vargākṣarasāṅkhyā upacīyate | avarge, na vargāḥ avargāḥ samasthānah, tasmin
avargasamjñite samasthāne | avargākṣarāṇi, tāni yakārādīni
hakāraparyavasānāni | kutah etat? "nañ iva yuktam anyasadṛśādhikaraṇe tathā hy
arthagatih" [aṣṭādhyāyī, 3.1.12, pātañjalabhbāṣyam] iti | vargākṣarāṇi kakārādīni |

yādīnām [tu] yathā abrāhmaṇam ānaya iti ukte brāhmaṇākṛtitulyam eva kṣatriyam
ānayati nāntyajādi, evam atra api kevalam vyañjanānām eva grahaṇam | teṣām
yakārādīnām avargākṣarānām yā saṅkhyā sā avargasthāne upacīyate | sā
[vargākṣarānām saṅkhyā] vargasthāne upacīyamānā avargasthānam api yadā prāpnoti,
tadā prāpnuvānā yā teṣām svavargākṣarānām upacitih sā vargasthānah eva, tasyāḥ
antyopacititvāt | vargākṣarasāṅkhyāyāḥ vargasthāne
upacīyamānāt avakāśah na asti cet saṅkhyāyāḥ sargah na vidyate iti vargāvargayoḥ
sthānayoḥ sthāpyate | athavā, yā daśādikā saṅkhyā sā dvisthānāvagāhinī, tasyāḥ
dvisthānāvagāhānaśīlatvāt dvayoh api sthānayoḥ sthāpyate | anyathā
daśādisaṅkhyāyāḥ abhāvah eva syāt | tad ekādinavāntasāṅkhyayā eva vyavahārah
syāt |

athavā "ñmau" iti atra makāragrahaṇam kurvan ācāryah jñāpayati ā yā
daśottaravargākṣarasañkhyā sā varge vā avarge ca bhavati | anyathā "go yah" iti evam
brūyāt | evam avargākṣarasañkhyā api vargashāne yojyā | vargākṣarāñām sañkhyā
vargasthāne kakārād upacīyate | etat uktam bhavati ā yāni vargākṣarāṇi śrūyate tāni
kakārāt prabhṛti pañhitāni bhavanti iti | anyathā hi "svam rūpam śabdasya
aśabdasamjñā" [aṣṭādhyāyī, 1.2.68] iti | yat yat akṣaram
uccāritam tat tasya eva rūpasya pratipādakam syāt, na kādisañkhyāyāḥ | atah uktam
"kāt" iti |

ñmau, ñah ca mah ca ñmau | anackau eva ñakāramakārau, tayoh dvi[vaca]nanirdeśah
ñmau | ñakāramakārayoḥ yā sañkhyā sā ekatra samvṛttā yakārasañkhyā bhavati |
ñakārah pañca, makārah pañcavimśatih, ete sañkhye ekatra trimśat, tena
trimśatsaṁkhyo yakārah | rephādīnām avargākṣaratvāt yakārasañkhyā eva kevalam
prāpnoti, anirdeśāt anyatsañkhyāyāḥ | na rephādīnām yakārasañkhyā | kutah? yadi
rephādīnām api yakārasañkhyā eva syāt tadā yakāram
eva sarvatra brūyāt, na rephādīni | "navarāśahah gatvāṁśakān prathamapātāḥ" iti atra
[ra]śaheśu ekam eva avargākṣaram brūyāt | tasmāt na rephādīnām yakārasañkhyā | kā
tarhi? kecit āhuḥ ā ekaikavṛddhyā rephādīnām sañkhyā, yakāratrimśat, rakārah
ekatrimśat, lakārah dvātrimśat iti ādi | etat na | kutah? ekatrimśadādisañkhyāyāḥ
anyena eva prakāreṇa siddhatvāt | yakārah trimśat, sa eva yadā yakārah
kakārasamyuktaḥ tadā hi ekatrimśat, khakārādibhiḥ dvātrimśat,
trayah trimśat ādiḥ iti sañkhyā |

anye āhuḥ ā rephādayah daśottaravṛddhyā vardhante iti, rephah catvārimśat, lakārah
pañcāśat | evam avargākṣarābhāvāt na śakyate pratipattum | yathā kāt iti ācāryeṇa
abhihitatvāt ekādyekottaritā sañkhyā vargākṣarāñām pratipadyate, evam
avargākṣarāñām api yāt iti yadā ucyate tadā daśottaritā sañkhyā pratipattum śakyate |

anyathā "yāt" iti api ucyamāne katham daśottaritā saṅkhyā, nanu ca ekottaritā syāt | na
iti āha ā yasmāt kāt iti [vargākṣarāṇi]

vargasthāne upacīyante tasmāt teśām ekottaritā saṅkhyā, yāni punar avargākṣarāṇi
yādīni ekottaropacayāni avargasthāne tasmāt daśottaritā eva vṛddhiḥ bhavati,
avargasthānasya daśakasaṅkhyādhāratvāt | evam tarhi yādgrahaṇam kartavyam | na
kartavyam | katham? akriyamāne ayam arthaḥ avagamyate | akṛtam eva yadi kṛtam
eva, kim iti na paṭhyate? paṭhyate eva "ñmau yaḥ" | atra ayam yakāraḥ anackaḥ ñmau
yaḥ, aparah yakāraḥ api anackaḥ evam pañcamīvibhaktyantah
ñmau yaḥ | atra ekaḥ yakāraḥ luptanirdiṣṭaḥ pratipattavyaḥ | yathā "kniti ca" [aṣṭādhyāyī,
1.1.5] iti atra luptanirdiṣṭaḥ gakāraḥ, kiti giti ñiti iti, evam atra api | athavā
dviyakāroccāraṇe api viśeṣaḥ na asti eva | evam yād iti asya ayam arthaḥ siddhaḥ |
yadi ekottarāṇi avargashānasthitatvāt daśottarāṇi eva bhavanti tadā kim iti ācāryeṇa
"ñmau yaḥ" iti mahāprayāsaḥ kṛtaḥ | katham tarhi vaktavyaḥ? "gaḥ yaḥ" iti gakāraḥ
trisaṅkhyāḥ, avargasthānasthitatvāt eva ayam trimśatkaḥ
bhaviṣyati | na, ñakāramakārasaṅkhyāvat eva śeṣāṇi api rephādīni
catvārimśadādisaṅkhāni bhavanti iti avargasthānāśrayāt eva siddhe sati
ñmakāragrahaṇam kurvan ācāryaḥ jñāpayati iti uktam ā yāvanti vargasthānāni teṣu
sarveṣu eva sā saṅkhyā yugapat prāptā, avargākṣarāṇām ca yā saṅkhyā yāvanti
avargasthānāni teṣu sarveṣu eva |

ataḥ tatsaṅkhyānirūpaṇārtham āha ā khadvinavake svarāḥ nava varge avarge | khāni
śanyāni, khānam dvinavakam khadvinavakam, tasmin khadvinavake, aṣṭādaśasu
śūnyopalakṣiteṣu [sthāneṣu] | svarāḥ nava varge avarge | varge vargasthāne nava
svarāḥ | aṣṭādaśasu ca sthāneṣu nava vargasthānāni, tatra navasu vargasthāneṣu nava
svarāḥ | ke punar te nava svarāḥ grāhyāḥ? yadi hrasvāḥ eva kevalam parigṛhyante tadā
na pūryante | atha dīrghāḥ eva kevalam
parigṛhyante tadā api aṣṭau svarāḥ bhavanti, nanu līvṛṇasya dīrghābhāvāt | atha

hrasvāḥ dīrghaḥ ca parigṛhyante tadā atiricyante, anīṣṭam prāpnoti | "jhā gṛda glā rdha dṛḍa" [gītikāī, 10] iti atra ākārasya dvitīye ca pratipāditatvāt dvitīyavargasthāne jhakārasaṅkhyā sthāpyamānā navaśatāni syuḥ, na nava | abhīṣyate ca navasaṅkhyā, navasaṅkhyākah jhakāraḥ | tatra hrasvāḥ eva jhakāraḥ paṭhyate iti cet "nṛṣi yojanam ṣilā bhūvyāsaḥ" [gītikāī, 6] iti atra lakāre pañcasahasrāṇi syuḥ, na pañcāśat | tatra ca avaśyam dīrghaḥ lakāraḥ paṭhitavyaḥ, anyathā gītih eva bhidyeta | ataḥ na kevalam hrasvāḥ na kevalam dīrghāḥ, na api hrasvadīrghāḥ, na svarāḥ māṭrakāpaṭhitāt parigṛhyante | kasmāt tarhi svarāḥ parigṛhitavyaḥ? ucyate ā yatra nava eva kevalāḥ svarāḥ paṭhyante, tasmāt parigṛhitavyaḥ | kasmin nava eva kevalāḥ paṭhyante? āha ā pāṇīnīye vyākaraṇe pratyāhāre a i u ṛ l e o ai au iti ete nava svarāḥ | tatra prathame vargasthāne akāraḥ, dvitīye ikāraḥ, tṛtīye ukāraḥ, iti ādi | evam svaropalakṣiteṣu vargasthāneṣu vargākṣarasasaṅkhyā | avargākṣarasasaṅkhyā ca svaropalakṣitavargasthānottare avargasthāne |

athavā varge avarge iti ayam vīpsā, varge avarge ca, vargasthāne avargasthāne ca te eva nava svarāḥ | tad yathā ā akāraḥ prathame vargasthāne tadanantarāvargasthāne ca | tad yadi vargākṣarasamyuktah akāraḥ prathamavargasthāne "bhṛgubudha" iti ādiṣu, sa eva yadā avargākṣarasamyuktah tadā tatprathamavargasthānānantarāvargasthāne "navarāṣaha" iti ādiṣu | evam ikārādiṣu api sveṣu vargāvargasthāneṣu yojyam | atha dīrghesu akārādiṣu katham karaṇīyam? ucyate ā yathā te vyākaraṇe akārādayaḥ svarāḥ aṣṭādaśaprabhedāḥ, dvādaśa bhedāḥ ca īvaraṇasandhisvarāḥ parigṛhyante, evam atra api | tena "ṣilā bhūvyāsa" iti ādiṣu ākāraḥ prathamah eva vargasthāneṣu | aṣṭādaśasthāneṣu yāni vargasthānāni avargasthānāni ca teṣu vargākṣarāvargākṣarasasaṅkhyā nirūpitā |

yadā punar aṣṭādaśavyatirikteṣu sthāneṣu saṅkhyā kasyacit vivakṣitā bhavati tadā katham karaṇīyam iti? atra āha ā navāṇtyavarge vā | navānām antaḥ navāntaḥ |

navānte bhavam navāntyam | navāntyah ca asau vargah ca navāntyavargah | tasmin navāntyavarge vā svarāh bhavanti, vikalpitāh svarāh bhavanti | vikalpah ca kasmīmśit katham upalakṣyate? yathā "putracchedyavikalpā apatyacchedyaprakārāh", evam atra api kenacit prakāreṇa vikalpitāh navātyavarge

daśame vargasthāne svarāh bhavanti | yadi prathame vargasthāne akārah śuddhah vikalpitah sa eva tasmāt vargasthānāt daśame vargasthāne anusvārādinā vikalpyate, evam ikārādayah svasmāt vargasthānāt daśame vargasthāne, punar api ca yāvat abhīṣṭam bhavati tāvat tena api anubandhena svarān vikalpya saṅkhyopadeśavyā | etat paribhāṣābījam ācāryeṇa saṅkhyāvivakṣūṇām anugrahāya upadiṣṭam | svaśāstravyavahārah tu līvarṇavargasthānāt na atiricyate |

vargākṣarāṇām avargākṣarāṇām ca [yā] saṅkhyā sā akṣarābhīhitatvāt yāvanti vakṣyamāṇāni gītikāsūtreṣu akṣarāṇi teṣām sarvesām eva prāpnoti tat ca anīṣṭam prasajyeta, tena atra arthavanti yāni akṣarāṇi teṣām saṅkhyā na bhavet iti etat vaktavyam | yathā ā "yugaravibhagaṇāh khyughṛ" [gītikā i, 3] iti atra khyughṛ-śabdasya saṅkhyā iṣyate na yugaravibhagaṇāśabdasya | yadi pratiṣedhaḥ na ucate tadā khyughṛ-śabdasya yathā saṅkhyā evam yugaravibhagaṇāśabdasya api prāpnoti | sa tarhi pratiṣedhaḥ avaśyam vaktavyaḥ | na vaktavyaḥ | yadi sarvesām eva akṣarāṇām gītikāsūtrapratibaddhānām saṅkhyā syāt tadā sarvam eva etat śāstram anarthakam syāt |

[jyotiṣaśāstraprādurbhāve vyākhyākāramatam]

atha katham asya atīndriyāṇām sphuṭagrahagatyarthānām prādurbhāvah? brahmaṇah prasādena iti | evam anuśrūyate ā anena ācāryeṇa mahadbhiḥ tapobhiḥ brahmā ārādhitaḥ | ataḥ asya tatprasādena sphuṭagrahagatyarthānām prādurbhāvah iti | āha ca ā

atīndriyārthāvagatēḥ tapobhiḥ paropakārakṣamakāvyadr̥ṣṭeh |
yah̥ alaṅkṛteḥ avyayam anvayasya parāśarasya anukṛtim cakāra ||
iti | brahmaṇaḥ kutah? brahmā svayaṁbhūḥ jñānarāśih | tataḥ sarvāśām vidiyānām
prādurbhāvah | ataḥ anena lokānugrahāya sphuṭagrahagatyarthavācakāni daśa
gītikāsūtrāṇi gaṇitakālakriyāgolārthavācakam āryāṣṭaśatam ca vinibaddham |
sphuṭagrahagatyarthahetavah arthāḥ, tasmāt sarvadā eva nityāḥ, teṣām śabdebhyah
avagatih iti śabdabaddhāḥ, yathā suvarṇikārah suvarṇam ādāya
kaṭakakeyūrakuṇḍalādyalaṅkāram niṣpādyā niṣpannam api alaṅkāram bhaṅktvā
anyatvam āpādayati | atha ca suvarṇasya tāpacchedanikāṣādiparīkṣaṇena anyatvam
manāg api na bhavati iti arthānām api sādhuśabdālaṅkāranānāvṛttabandhaiḥ
viracyamānānām ananyatvam iti | śrutau api śatapathe bṛhadāraṇyake paṭhyate; tad
yathā ā "peśaskārī peśasah mātrām apādayānyannavataram kalyāṇataram rūpam
tanute" [bṛhadāraṇyakopaniṣat, 4.4.4] iti | evam ayam āgamārthaḥ brahmaṇaḥ sakāśāt
ācāryeṇa adhigataḥ |

atha anye manyante ā "jyotiṣām udayamadhyāstamayaprāptīn dṛṣṭvā
pratyakṣānumānābhyām paricchidya svadhīviracitam" iti | etat ca na | jyotiṣī kṣititalam
bhitvā pūrvasyām diśi udgatāni krameṇa ambaramadhyam atītya parasyām diśi
kṣititalam bhitvā eva praviśantah lakṣyante | etāvati udayāstamayāntare
viyatupalakṣaṇābhāvāt jyotiṣām gatipramāṇaparicchedah duḥsampādyah, gateḥ
ceyattāparijñānābhāvāt "etāvatā kālena iyatī gatiḥ etāvatā kālena
kiyatī" iti gaṇitakarma na pravartate | pramāṇaphalarāśyoḥ aparijñānāt apravatteḥ ca
gaṇitakarmanāḥ grahāṇām yugabhagaṇāparijñānam, yugabhagaṇāparijñānāt
grahagatiparijñānābhāvah | yathā atra aśvādīnām gatiḥ pratyakṣeṇa deśakālābhyām
saha upapadyate iti ataḥ gaṇitakarma pravartate, atīndriyatvāt grahagatēḥ
viyatupalakṣaṇābhāvāt na pratyakṣeṇa paricchidye, katham tarhi āgamāt

upagatagrahahayutigrahanakṣtrayogagrahanādayah pratyakṣīkriyante?

anyat ca ā grahādīni jyotīṁsi kṣititalam bhittvā eva pūrvasyām diśi udgatāni krameṇa
ambaramadhyam atītya kṣititalam bhītvā eva astam gacchantaḥ lakṣyante |
jyotiścakrasya pravahākṣepāt jyotiścakrapratibaddhāḥ grahāḥ prāṇmukhāḥ svagatyā
bhramantaḥ api laghvyā jyotiścakragatyā aparām diśam āsādayantaḥ lakṣyante,
kulālacakrārūḍhakīṭavat | tasmāt anyā jyotiścakragatiḥ, anyā grahagatiḥ prāṇmukhī |
kutah? yasmāt grahaḥ aśvinyām drṣṭaḥ bharanyādiṣu
parasparam prāgyavasthiteṣu nakṣatreṣu upalakṣyate bhacakre, na revatyādiṣu
parasparāparasthiteṣu | tasmāt jyotiścakragrahagatyoh bhinnatvāt
udayāstamayadeśāntaraprāptyanumānam upapadyate | tasmāt ayam āgamaḥ
brahmaṇaḥ prasādāt ācāryeṇa adhigataḥ iti | grahasya nakṣatrāṇām ca
nityasambandhāt nakṣatrāṇām niscalatvāt grahagatyanumānam iti etat ca na | bahūni
nakṣatrāṇi teṣu grahasya pāramparyeṇa bhukteḥ anekarūpatvāt
vikṣepāpakramacakravaśāt
dakṣinottaramachyāsannadūracāritvāt grahasya ekasmin eva nakṣatre gatiparyayeṇa
udayāstamayavakrānuvakrasambhavāt grahagativalicitryam, gaṇītena ca ekarūpā gatiḥ
anumīyate | tasmāt ayam āgamaḥ brahmaṇaḥ prasādāt ācāryeṇa adhigataḥ iti |

anyat ca ā deśāntarākṣaviśeṣāt grahagativalicitryam | tat yathā ā laṅkāyām aksābhāvāt
sarvadā eva tulye rātryahanī laṅkāsamīpavartinām rohaṇasimhalānām ca; tataḥ
uttarataḥ divasasya vṛddhiḥ niśāyāḥ hāniḥ, dakṣinataḥ niśāyāḥ vṛddhiḥ divasasya hāniḥ
iti | sūryagrahaṇam api aksadeśāntaravaśāt kvacit khaṇḍam, kvacit sakalam, kvacit na
eva | candragrahaṇam ca iha ghaṭīvyatītāyām rātryām, ghaṭīkādeśāntarāparadeśasthitā
grahītārah dinānte kathayanti,
pūrvataḥ ca yātā dūrodgatasya candramasaḥ grahaṇam kathayanti | tasmāt
udayamadhyāstaprāptinakṣatrayogaparyayādibhiḥ vicitrā iyam grahagatiḥ

deśāntarākṣaviśeṣaiḥ ca ativicitratvam āpadyamānā na śakyate anekarūpatvāt
gaṇitanyāyena ānetum | na ca kaścit evam prakārāṇām deśakālaparyayena
upapadyamānānām pratijāgaritā | yaḥ ca sarvah ciram jīvati sa varṣaśatam jīvati | tasya
api yugapat anekadeśāntarākṣaviśeṣat nakṣatrayogaparyayādibhiḥ
utpadyamānagrahagatayah
yugapat na pratyakṣībhavanti | tasmāt ayam āgamaḥ brahmaṇaḥ prasādāt ācāryena
adhigataḥ iti | vakṣyati ca ā

sadasajjñānasamudrāt samuddhṛtam brahmaṇaḥ prasādena |

sajjñānottamaratnam mayā nimagnam svamatināvā ||

[golapādah, 49]

iti |

[vedāṅgesu jyotiṣāśāstraprādhānyam]

na kevalam jyotiṣām ayam āgamaḥ, vedāṅgam ca | "tasmāt brāhmaṇeṇa niṣkāraṇam
ṣaḍāṅgaḥ vedaḥ adhyeyah" [pātāñjalamahābhāṣyam, paspaśāhnikam] ṣaḍāṅgesu
pradhānam jyotiṣām ayanam | kutah asya prādhānyam? yasmāt anadhītaśiksādayah
api prāg gurūpadeśāt vedān adhīyate, na ca teṣām duradhītam bhavati | na
anadhigatajyotiṣām ayanā vedoktān yajñakālān jānate | atha śikṣayā varṇānām
sthānakaraṇaprayatnāni nirūpyante ā

aṣṭau sthānāni varṇānām uraḥ kanṭhaḥ śirah tathā |

jihvāmūlam ca dantāḥ ca nāsikoṣṭhau ca tālu ca ||

[pāṇinīyaśikṣā, sloī 13]

iti ādi | varṇāḥ uccāryamāṇāḥ svaiḥ svaiḥ sthānakaraṇaprayatnaiḥ svabhāvataḥ eva
āsyāt niṣkrāmanti, na anyataḥ | "akuhavisarjanīyāḥ kanṭhyāḥ, ṛturaśāḥ mūrdhanyāḥ |"
akuhavisarjanīyāḥ uccāryamāṇāḥ kanṭhapradeśāt eva āsyāt niṣkrāmanti na mūrdhnāḥ,
ṛturaśāḥ uccāryamāṇāḥ mūrdhnāḥ eva na anyasmāt pradeśāntarāt iti | yasmāt teṣām
sthānakaraṇaprayatnāḥ svabhāvataḥ eva siddhāḥ tasmāt teṣām
sthānakaraṇaprayatnāḥ nirarthakah | tathā ca anadhītavyākaraṇāḥ
api brāhmaṇāḥ vedān adhīyate | na ca teṣām duradhītam bhavati | na ca
anadhītajyotiṣām ayanā vedoktān yajñakālān jānate | vyākaraṇena kila vedānām rakṣā
kriyate | rakṣā api prajānām pārthivaiḥ duṣṭanigraheṇa śiṣṭānugraheṇa ca kriyate | evam
vedānām śabdarāśitvāt asādhūnām uddhāraḥ nigrahaḥ, sādhūnām śabdānām samyak
kṛtaḥ anugrahaḥ iti | etat ca na | nityāḥ vedāḥ | teṣu śabdarāśiprakṣepāṇām [svataḥ
siddhiḥ], drṣṭānuvidhitvāt chandasah | yaḥ yaḥ
śabdaḥ vedeṣu paṭhyate tasya tasya aprasiddhalakṣaṇasya api svayam lakṣaṇam
sādhyam pratyayaprakṛtilopāgamavarṇavikārādibhiḥ | na ca jyotiṣām ayanasya api | ye
ye vede yajñakālāḥ drṣṭāḥ te sarve eva jyotiṣām ayane gaṇitalakṣaṇasiddhāḥ eva |

anyat ca ā "drṣṭānuvidhitvāt chandasah" iti yadi vedeṣu drṣṭāḥ eva anuvidhīyate tadā
nahi kiñcit prayojanam vyākaraṇena | atha ḥyajuhṣāmnām sarveṣām eva
pratipadānirukteḥ niruktasya āvyāpitā | atha chandovicitaiḥ ḥyajuhṣāmnām nityāḥ eva
chandaḥ nibaddhaḥ | na ca teṣām idānīm kāvyapadapūrvah nibaddhaḥ kriyate | na ca
anyūnādhikalakṣaṇānām ḥyajuhṣāmnām idānīm anyathākaraṇam karaṇam | evam ca
bāhvṛce śrutau śrūyate, na hi ekena akṣareṇa
dvābhyām vā ūnāni chandāṁsi kriyante iti | na hi evam vedoktānām yajñakālānām iti
kramah śrūyate | na hi ādhānādiṣu saṁskāreṣu kālaviśeṣāḥ jyotiṣām ayanāt vinā
avagamyante | tat yathā saṁskāreṣu ā

evam gacchan striyam kṣāmām maghām mūlam ca varjayet |

susthah̄ indau sulakṣaṇyām vidvāṁsam putram aśnuyāt ||
[yājñavalkyasmṛtiḥ, ācārādhyāyah, vivāhaprakaraṇam, śloī 80]

iti | tatra maghāmūlayoh pratipatticchedau indoḥ ca susthaduhṣṭhatām ca
nānadhītajyotiṣām ayanā jānate | "sā yadi garbham na dadhīta simhyā śvetapusyā
upoṣya puṣyena mūlam utthāpya" iti [pāraskaragrhyasūtram, kāī 1, kaṇḍikā 13, sūī 1]
tatra puṣyasya pratipatticchedau nānadhītajyotiṣām ayanā jānate | tathā ca pūmsavane
ā "yat ahāḥ pūmsā nakṣatreṇa candramāḥ [yuyeta] tat ahar upavāsyā" iti
[pāraskaragrhyasūtram, 1. 14. 3] | tatra pūmnaṅkṣatrāṇi punar
vasupuṣyahastasvātiśravanāḥ | eteṣām nirupahatānām anukūlāhatānām ca
pratipatticchedau nānadhītajyotiṣām ayanā jānate |

anyat ca ā

nāmadheyam daśamyām tat dvādaśyām vā asya kārayet |
puṇye ahani muhūrtte vā nakṣatre vā guṇānvite ||
[manusmṛtiḥ, 2.30]

iti | atra puṇyasya ahnāḥ, nakṣatrasya guṇānvitasya, muhūrtasya vā pratipatticchedau
nānadhītajyotiṣām ayanā jānate |

anyat ca ā "udagayane āpūryamāṇapakṣe puṇyāhe kumāryāḥ pāṇim gr̄hṇīyāt", "triṣu
triṣu uttarādiṣu", "svātau mṛgaśirasi rohiṇyām ca" [pāraskaragrhyasūtram, 1.4.5-7] iti
atra udagayanādīnām uttarādīnām nakṣtrāṇām vadhuvarayoh anukūlānām ca
pratipatticchedau nānadhītajyotiṣām ayanā jānate, evamādi pratiśākham saṃskārāṇām
puṇyāhanakṣatramuhūrtacodanā jyotiṣām ayanāṅgaviṣayāḥ tadvidbhyaḥ eva
avagantavyāḥ, na gurūpadeśāt sampradāyāvicchedāt
vā avagantavyāḥ | iti adhyeyam jyotiṣām ayanam |

anyat ca ā chandasah upākarmanī "atha ataḥ adhyāyopākarma | oṣadhīnām
prādurbhāve śravaṇena śrāvaṇyām paurnamāsyām śrāvaṇasya pañcamī hastena vā"
[pāraskaragrhyasūtram, 2.10.1-2] iti atra śrāvaṇapaurṇamāsīm śravaṇena yuktām,
śrāvaṇasya pañcamīm hastena yuktām nānadhītajyotiṣām ayanā jānate | anyat ca ā
[chandasah utsarge] "pauṣasya rohiṇyām madhyamāyām vāṣṭakāyām adhyāyān
utsrjeren" [pāraskaragrhyasūtram, 2.12.1] iti etat ca
| atha nakṣatrādhāneṣu "yā asau vaiśākhasya āmāvāsyā tasyām ādadhiṭa sā rohiṇyā
sampadyate" [āpastambaśrautasūtram, 4.3.20; baudhāyanavyākhyā] iti atra prāg eva
rohiṇyā vaiśākhasya āmāvāsyāyāḥ pariṣṭānayogyaṣya ādhānadravyasya arjanam
ṛtvijām ca varanam iti etat ca jyotiṣām ayanāṅgaviṣayam, tadvidbhyaḥ eva
avagantavyam, na gurūpadeśāt sampradāyāvicchedāt vā avagantavyam iti adhyeyam
jyotiṣām ayanam | tathā ca "kṛttikāsu agnim ādadhiṭa" [taittirīyabrahmaṇam,
1.1.2.1] evamādi nakṣatrādhānacodanāḥ ca "paśvijyā samvatsare [samvatsare], prāvṛṣi
āvṛttimukhayoh vā" [kātyāyanaśrautasūtram, paśubāṇḍhaí, 1-2] iti āvṛttimukhayoh
pratipatticchedau vedinām anadhītajyotiṣām ayanā [na] jānate | anyat ca ā
"darśapaurṇamāsābhyām yajeta" [śatapathabrahmaṇam, 11.2.5.10] iti evamādi
codanāḥ ca [śrauta]smārteṣu ca karmasu "aparapakṣe śrāddham kurvīta ūrdhvam vā
caturyām" [pāraskaragrhyasūtrapariśiṣṭakārabhāṣyam, śrāddhasūtram
1] |

api naḥ sa kule jāyāt yaḥ naḥ dadyāt trayodaśīm |
pāyasam madhusaṃyuktam varṣāsu ca maghāsu ca ||
[manusmṛtiḥ, 3.264]

iti |

kim bahunā, śrautasmārtavīśayāṇām tithinakṣatratrīśayāṇām karmaṇām nityānām
kāmyānām ca na jyotiṣām ayanāt vinā samārambhaḥ, iti adhyeyam jyotiṣām ayanam |

[lokavyavahāre jyotiṣāstropādeyatā]

lokaḥ ca tithinakṣatramuhūrtavīśayāṇām [sambandhena eva] śubheṣu kāryeṣu
pravartate | tathā ca puṣpaphalapāṇīḥ sarvah eva daivajñam upetya pr̄cchatī ā "kadā
me kim bhaviṣyati? kadā aham kṛṣyādikarmanī pravarte? kadā aham daivajñakena
upatiṣṭhe? kadā aham adhvānam prapadye? kadā rājānam paśyāmi? ihaṣthasya
śubham me bhaviṣyati āhosvid anyasthānagatasya? kena karmaṇā pravṛttasya me
phalam bhaviṣyati?" iti etat daivajñāt avagatārthaḥ
sarvah eva śubheṣu kāryeṣu pravartate | aśubheṣu api ā "kadā paraḍeśam didhakṣuḥ
aham pravarte? kadā vairiṇah vināśāya pratiṣṭhe? kadā gajāśvaharaṇam [vidadhe]?
kadā puram grāmam vā ghātayāmi?" etat ca daivajñāt avagatya sarvah pravartate |
mlecchādayah api ca śakunanimittasvapnabalāt eva kāryeṣu pravartante | yasya ca
yatkiñcit śubham bhavati sa bravīti "śubhanakṣatramuhūrteṣu aham āgataḥ", yasya vā
yatkiñcit skhalitam bhavati sa bravīti ā "mama nakṣatrapīḍā
vartate, na anukūlāḥ grahāḥ" iti | tathā ca hastiśikṣāvidah svaśāstroktatithinakṣatreṣu
eva pāribandhādihastikarmasu pravartante |

pakṣacchidreṣu tithayah ye yasya -ravah matā|

teṣu teṣu pāripraveśabandham ca parivarjayanti |

nakṣatram hastinām prāha svayam eva prajāpatih |
hastahastaviśuddhaḥ hi hastinām karma kīrtyate ||

iti ādi | tathā ca aśvaśikṣāyām ā

aśvinyām revatau puṣye punar vasyoḥ ca kārayet |
vājinām sarvakarmāṇi svātau vāruṇahastayoh ||

iti | tathā ca viṣatantre ā

kṛttikāsu viśākhāsu maghāsu bharaṇīṣu ca |
sārpe mūle tathā ardrāyām sarpadaṣṭaḥ na jīvati ||

āviddhamlecchādayaḥ api ca na śubhatithinakṣatramuhūrtān ullaṅghya pravartante |
tathā kṣutaruditākruṣṭapratyaskhalitaśravaṇam parihaṇanti |
trṇakāṣṭhabhāralavaṇāsthimattonmattaklībāhidarśanam parihaṇanti |
sitakusumasvāduphalekṣuvamśā[mbara]sa[mā]laṅkṛtastrīpūrṇakumbhādidarśanam
abhinandanti | iti adhyeyam jyotiṣām ayanam lokānugrahāya | iti evam idam prathamam
gītikāsūtram || 2 ||

[grahāṇām yugabhagaṇāḥ]

grahāṇām yugabhagaṇapradarśanāya āryām āha ā

yugaravibhagaṇāḥ khyughṛ śaśi
cayagiyiṇuśuchlṛ ku ṇiśibuṇlṛṣkṛ prāk |
śani ḥnuṇvighva guru khri-
cyubha kuja bhadlijhnukṛ bhṛgubudhasaurāḥ || 3 ||

asyāḥ padāni ā yugaravibhagaṇāḥ, khyughṛ avibhaktikāḥ nirdeṣaḥ, śaśi avibhaktikāḥ

eva, cayagiyiňušuchl̄ avibhaktikah, ku avibhaktikah eva, nišibuňl̄şkhr̄ avibhaktikah, prāk, śani, ḏhuňvighva, guru, khricyubha, kuja, bhadlijhnukhr̄, etāni śanyādīni api ca padāni avibhaktikanirdiſṭāni eva | avibhaktikanirdeſāḥ anyatra api dr̄syante "aiuň r̄lk", "sarvaviśva" ityādiſu ca | bhrgubudhasaurāḥ |

[yugaravibhagaṇāḥ] | yuge ravibhagaṇāḥ yugaravibhagaṇāḥ, yugasya vā ravibhagaṇāḥ yugaravibhagaṇāḥ | yugam kālakriyāpāde vakṣyate | atha atra dvandvanirdeſāḥ kasmāt na bhavati? ā yugam ca ravibhagaṇāḥ ca yugaravibhagaṇāḥ, yugam khyughṛ ravibhagaṇāḥ khyughṛ iti | evam ca sati dvandvanirdeſe yat tat kālakriyāpāde vakṣyate, tat eva na vaktavyam bhavati | satyam, kintu traīrāśikam na siddhyati | saptamāsamāse ṣaṣṭhīsamāse vā kriyamāne traīrāśikam siddham | yadi divasasaṅkhye varṣasaṅkhye vā yuge yathānirdiſṭāḥ grahabhagaṇāḥ labhyante tadā asmin nirdiſte kiyantah iti tatkālamadhyamagrahabhagaṇādayah labhyante | ṣaṣṭhīsamāse ca yad yasya divasasaṅkhyasya varṣasaṅkhyasya yugasya yathānirdiſṭāḥ grahabhagaṇāḥ labhyante, asya iſṭasya kiyantah iti madhyamagrahabhagaṇādisiddhiḥ | dvandve punar na etat siddhyati | asau ca atra yugabhagaṇaśabdah sarvatra adhikārārthe prayujyate | adhikāre ca yathā yugaravibhagaṇāḥ evam yuge śaśibhagaṇāḥ ityādi | anyathā kasmin kāle kasya vā kālasya ete grahabhagaṇāḥ iti etat ne nirdiſtam bhavati | tasmāt ṣaṣṭhīsaptamīsamāsābhyām anyatareṇa vyākhyeyam, arkeṇa eva grahāṇām yugaprasiddheḥ | uktam ca ā viśiſṭadeśakālārkabhādiparyāyayogajah | kālah grahāt ca sadasadvargah syāt vyāvahārikam ||

iti | uttaratra api adhikārārtham raviyugabhagaṇaśabdah sambandhanīyah, raviyuge śaśibhagaṇāḥ raviyugasya vā iti | katham idam? [raviyugabhagaṇāḥ iti] pāṭhāntare api

dvandvanirdeśāt ṣaṣṭhīsaptamyarthah durlabhaḥ bhavet adhikārah ca | evam tarhi ekaśeṣanirdeśah atra pratipattavyah, raviyugabhagaṇāḥ ca raviyugabhagaṇāḥ ca raviyugabhagaṇāḥ iti | ekena raviyugabhagaṇāśabdena raviyugabhagaṇāḥ ca raviyugabhagaṇāpramāṇasamsiddhiḥ dvitīyena ṣaṣṭhīsaptamīsamāsābhyaṁ trairāśikasiddhiḥ iti | yadi evam yugaravibhagaṇāśabdena api ayam arthaḥ śakyate jñātum, na kiñcit pāṭhāntare prayojanam |

yugaravibhagaṇāḥ kiyantah? ucyante ā khyugṛ | ukāravargasthāne ayam khakārah yakārah ca, tena ukāravargasthāne dvātrimśat | gṛ ḥkāravargasthāne ghakārah, tena tasmin sthāne catvāri | evam ekatra tricatvārimśat lakṣā vimśatisahasrāṇi | aṅkaiḥ api 4320000 |

śaśi cayagiyiṇuśuchlṛ | prakṛtādhikārayugabhagaṇasamyogena śaśisabdaḥ vyākhyeyah ā yugaśaśibhagaṇāḥ | atra api tau eva samāsau | yugaśaśibhagaṇāḥ cayagiyiṇuśuchlṛ | pūrvavat eva vargāvargasthāneṣu saṅkhyā sthāpanīyā | rasāgnirāmadahaneśvadriśailaśilīmukhāḥ | aṅkaiḥ api 57753336|

ku niśibunlṛṣkṛ | tathā eva yugakubhagaṇāḥ tathā eva svasthāne api viniveśitāḥ, khāmbareśvadrirāmāśviyamāśtatithayah, 1582237500 |

bhacakrapratibaddhāni nakṣatrāṇi tasya bhacakrasya pravahākṣepavaśāt aparām diśam āśādayanti | nakṣatrāṇi [bhuvam] grahavat svagatyā prāṇmukhīm bhramantīm iva paśyanti iti anayā yuktyā bhuvaḥ bhagaṇanirdeśah |

prāk | ye ete grahāḥ vivasvadādayah prāṇmukhāḥ bhramanti | yadi api bhapañjarapravahākṣepāt apagacchanti diśam, tathā api ete svagatyā prāṇmukham eva gacchanti | alpatvāt gateḥ kālāntareṇa prācīm diśam āśādayantah lakṣyante,

kulālacakrasthakītavat | yadi ete prāggatayah na syuh, tadā aśvinyām drṣṭah [grahah]
bharanyām na upalakṣyeta | yadi ete aparābhīmukhāḥ syuh, tadā aśvinyām drṣṭah
revatyām upalakṣyeran | tasmāt ete prāṇmukhāḥ eva
bhramanti iti atah "prāk" iti |

kim punar bhūbhagaṇopadeśe prayojanam iti āha ā "ravibhūyogāḥ [bhūdivasāḥ]",
[kālakriyāī, 5] iti bhūdivasānayanam | na etat asti, prakārāntaranispannatvāt
kudivasānām | yadi api ayam eva kudivasapratipatteḥ upāyah syāt tathā api
upadeśagauravāt na yujyate | kā upadeśagurutā? ucyate ā "ku niśibuṇlṛṣkhṛ" iti
kubhagaṇopadeśāḥ, "ravibhūyogāḥ bhūdivasāḥ" iti bhūdivasopadeśāḥ | katham tarhi
abhidhīyate? ucyate ā bhūdivasapramāṇanirdeśāḥ | evam laghutaraprakārah
| tasmāt na ekam prayojanam upadeśasya etāvataḥ kāraṇam bhavitum arhati | anyat
api prayojanāntaram asti iti āha | tat yathā ā kalyātabhūbhagaṇaiḥ sarve eva grahāḥ
mīnameśasandhyudayakālāvadhayah ānīyante | kali[yāta]ravimaṇḍalāharganāsamāsaḥ
[eva] kalyātabhūbhagaṇāḥ | taiḥ traīrāśikam ā yadi yugaprasiddhabhūbhagaṇaiḥ
iṣṭagrahabhagaṇāḥ mīnameśasandhiprārabdhāḥ prāpyante, tadā kalyātabhūbhagaṇaiḥ
kiyantah iti iṣṭagrahabhagaṇādayah | athavā
sūryodayakālāvadhēḥ eva grahāḥ ānīyante | katham? ravibhagaṇāḥ yātāharganē
kṣiptvā taddivasasūryarāśyādīn ca adhaḥ vinyasya iṣṭagrahabhagaṇaiḥ kramena
samguṇayya svacchedaiḥ ṣaṣṭyādibhiḥ bhaktvā upari upari āropya tathā eva
bhūbhagaṇaiḥ vibhajeta, labdham iṣṭagrahamāṇḍalāni | śeṣam dvādaśādiguṇitam kṛtvā
tad avaśiṣṭam [adhaḥ adhaḥ] prakṣipyā tathā eva ca apahṛte rāśyādayah | athavā,
ravimaṇḍalāharganāyayogam dvādaśabhiḥ samguṇayya raviyātarāśayah
prakṣipyante, trimśatā bhāgāṇityādi [arghāt trimśatā samguṇayya raviyātabhāgān
prakṣipet iti ādi] karma kṛtvā khakhaṣadghanacchedarāśim nidhāya traīrāśikam ā yadi
yugabhūbhagaṇaiḥ abhīṣṭagrahabhagaṇāḥ labhyante, tadā
khakhaṣadghanabhaṅgahārabhūbhagaṇaiḥ kiyantah? tena

khakhaṣadghanagunītayugabhūbhaganāiḥ bhāge hr̥te bhagaṇādilabdhīḥ | athavā,
rāśyādiguṇakārasaṁvarga- [12 x 30 x 60]-khakhaṣadghana-[21600]yoḥ
guṇakārabhāgahārayoḥ tulyatvāt naṣṭayoḥ
abhiṣṭagrahabhabhagaṇuṇitabhūbhaganāliptānām yugabhūbhaganāḥ eva bhāgahāraḥ,
phalam abhiṣṭagrahaliptāḥ |

śani ḍhuṇivaghva | pūrvavat śaniyugabhagaṇāḥ ḍhuṇvighva, kṛtaraseṣu aṅgamanavah,
aṅkaiḥ api 146564 | guru khricyubha | pūrvavat eva, kṛtāśvīyamābdhirasāgnayah,
aṅkaiḥ api 364224 | tathā eva kuja bhadlijhnukhṛ, vedāśvivatasarandhrayamāsvinah,
aṅkaiḥ api 2296824 |

bhṛgubudhasaurāḥ | bhṛguḥ ca budhaḥ ca bhṛgubudhau, tayoḥ surāḥ | sūryasya ime
saurāḥ | ke? bhagaṇāḥ | bhṛgubudhayoḥ surāḥ, bhṛgubudhasaurāḥ | sūryasya ye
bhagaṇāḥ te eva śukrabudhayoḥ api khyughṛ-saṅkhyā iti | eteṣām yugabhagaṇānām
utpattipratyākhyānam "kṣitiraviyogādinakṛd" [golapādah, 48] iti asyām kārikāyām
vyākhyāsyāmaḥ | evam dvitīyā gītih || 3 ||

[grahoccayugabhagaṇāḥ]

grahoccayugabhagaṇapratipādanāya āha ā

candrocca rjuṣkhidha budha
suguśithṛna bhṛgu jaṣabikhuchṛ śeṣārkāḥ |

candrocca, rjuṣkhidha, budha, suguśithṛna, bhṛgu, jaṣabikhuchṛ, eteṣām avibhaktikāḥ
nirdeśāḥ, śeṣārkāḥ |

atra api adhikṛtayugabhagaṇasamyoṇa eva vyākhyeyam | candroccasya
yugabhagaṇāḥ candroccayabhagaṇāḥ, rjuṣkhidha navenduyamāṣṭavasvabdhayah,
aṅkaiḥ api 488219 | budha evam budhoccayugabhagaṇāḥ suguśīthṛṇa
khāśvyambaramunirāmarandhrādriśāśināḥ, aṅkaiḥ api 17937020 | bhṛgu tathā eva
bhṛgūccayugabhagaṇāḥ jaśabikhuchṛ vasvaṣṭāgniyamāśviśūnyādrayah, aṅkaiḥ api
7022388 |

atra ayam bhṛguśabdaḥ, āhosvit bhṛgujaśabdaḥ? bhṛguḥ nāma bhagavān maharṣiḥ
tasya putraḥ śukraḥ tasya ye bhagaṇāḥ nirdiśyante; tena bhṛgujaḥ iti, athavā bhārgavaḥ
iti nirdeśyah | yadi ayam bhṛgujaśabdaḥ, tadā śabikhuchṛ iti ete bhagaṇāḥ prāpnuvanti,
jaśabikhuchṛ iti ete ca iṣyante | katham tarhi atra bhṛguśabdaḥ eva vijñeyah, yat uta
bhṛgujaśabdaḥ? bhṛguśabdaḥ eva vijñāyate | kutah? anyatra bhṛgujaśabdasya
āśravaṇāt | atra śāstre bhṛgujaśabdena na
kvacit śukraḥ ācāryeṇa nirdiṣṭaḥ | tena tarhi bhṛguśabdena bhṛgugurubudhaśani iti ādi
yadi api ucyate, bhārgavaśabdena nirdeśah kartavyah, na bhṛguśabdena, bhṛgoḥ
apatyam bhārgavaḥ iti | na eṣaḥ doṣaḥ, bhṛgoḥ apatyam bhṛguḥ iti api bhavati, "yathā
babhruḥ, maṇḍuḥ, lamakah" [aṣṭādhyāyī, 3.1.2. pātañjalabhāṣyam] iti | babhroḥ
apatyam bābhṛavyah iti ādi vaktavye babhruḥ iti ucyate, evam māṇḍavyah maṇḍuḥ |
tathā eva bhārgavaḥ bhṛguḥ |

śeṣārkāḥ | nirdiṣṭebhyaḥ ye anye te śeṣāḥ, te ca śanigurubhaumāḥ | teṣām śeṣāṇām |
arkasya ime ārkāḥ | ke? bhagaṇāḥ | śeṣāṇām ārkāḥ, śeṣārkāḥ | "khyughṛ"tulyāḥ eva
uccabhabhaṇāḥ śanigurubhaumāṇām | yataḥ sūryādayaḥ vigrahavantaḥ paribhramantah
rāśiṣu upalakṣyante, tena teṣām bhagaṇāḥ kīrtyante | ete punar śāsyuccādayaḥ na eva
lakṣyante; teṣām katham bhagaṇāḥ bhavanti, alakṣyamāṇatvāt iti? atra ucyate ā atra
candrādīnām eva [svoccasthitāṇām
bhagaṇāḥ] | athavā sphuṭagrahagatiḥ atra sādhyate | tasyāḥ sādhanopāyāḥ

madhyamah, śīghrah, mandaḥ, paridhayah, jyā iti ādayah | sā ca sphuṭā grahagatih
etaiḥ upāyaiḥ sādhayitum śakyate, na anyathā | yathā
prakṛtipratyayalopāgamavarṇavikārādibhiḥ upāyaiḥ sādhuśabdah sādhyate, evam atra
api | tasmāt upāyāḥ upayasādhakāḥ | teṣām na niyamah | uktam ca ā

upādāyāḥ api ye heyāḥ tān upāyān pracakṣate |
upāyānām ca niyamah na avaśyam avatiṣṭhate ||
[vākyapadīyam, 2.38]

iti | tasmāt upāyamātratvāt na doṣah |

[pātayugabhagaṇāḥ]

atha pātabhagaṇapradarśanārtham āha ā

buphinaca pātavilomā

adhikṛtayugabhagaṇasamyogāt yugapātavilomabhagaṇāḥ | buphinaca
rasāśviyamadasrāgniyamāḥ, aṅkaiḥ api 232226; ete bhagaṇāḥ | pātasya vilomā
viparītagatih prasiddhā, tena atra anulomagatijijñāsubhiḥ maṇḍalāt viśodhyate, tasya
pātasya anulomagatih bhavati | sā candrāt viśodhyate | tasmāt pātaviśuddhaśeṣāt
candramasaḥ kṣepaḥ sādhyate | yadi etāvatā prayojanena pātaḥ maṇḍalāt śodhya
anulomah kriyate atra, tarhi mahāprayāsaḥ - pātaḥ maṇḍalāt śodhyaḥ,
sa candrāt iti | katham tarhi? yaḥ eva karaṇāgatapātaḥ candramasi kṣipyate, vilomatvāt
apacayaḥ kṣepaḥ iti | tasmāt uttaraḥ dakṣiṇaḥ vā vikṣepaḥ sādhyate | kim ayam
candramasaḥ pātaḥ ucyate, nanu ca sarveṣām eva ayam iti? nahi, pāriśeṣyāt
candrasya eva ayam pātaḥ, grahāṇām pātaḥ vakṣyante, "navarāṣaha" [gītikāi, 8] iti |

tasmāt pariśiṣṭah candraśya eva ayam | nanu sūryah api anyah asti? tasya
vikṣepābhāvāt pātābhāvah |

[bhagaṇārambhakālādinirdeśah]

ete grahoccapātabhagaṇah kasmin kāle, kasmin deśe, kasmāt jyotiścakrapradeśāt
pravṛttāh iti etat na jñāyate | atah tatpradarśanārtham āha ā

budhāhni ajārkodayāt ca laṅkāyām || 4 ||

budhāhni, ajārkodayāt, ca, laṅkāyām |

budhasya ahaḥ budhāhah, tasmin budhāhni | nanu ca "rājāhassakhibhyaṣṭac"
[aṣṭādhyāyī, 5.4.19] iti samāsānte kṛte budhāhe iti bhavitavyam | na eṣah doṣah,
samāsāntavidheḥ anityatvāt | anityah samāsāntavidhiḥ, kasmin cit bhavati kasmin cit na
bhavati iti | tena budhāhni iti api bhavati | budhadivase budhādivāraḥ
anantarākṛtayugapraṛṭṭau | tena budhādivārāt kṛtayugādi ahar gaṇah gaṇyate |
ajārkodayāt ajaḥ meṣah | arkasya udayah arkodayah | ajaḥ ca arkodayah
ca ajārkodayah | "sarvah dvandvah vibhāṣāyām ekavat bhavati" [aṣṭādhyāyī 2.2.29,
pātañjalabhaṣyam] iti ekavat bhāvah | tasmāt ajārkodayāt, meṣadeḥ arkodayāt ca |
meṣadeḥ bhagaṇapradeśāt sūryodayāt ca laṅkāyām ete grahāḥ svān svān bhagaṇān
bhoktum ārabdhāḥ | meṣadeḥ yasmāt ete pravṛttāḥ tasmāt eṣu graheṣu na kṣepah na
apacayaḥ | yasmāt sūryodayāt tasmāt ardharātryādiṣu kālavišeṣeṣu yathā iṣṭam
svabhogaiḥ sañcālanam, yataḥ laṅkāyām tataḥ anyeṣu
deṣeṣu deśāntararekhāyāḥ pūrvataḥ aparataḥ vyavasthiteṣu deśāntaraphalāpacayaḥ
kṣepah ca | cakāra etān eva arthān samuccinoti | budhāhni arkodayāt laṅkāyām iti |
evam trīyā gītiḥ || 4 ||

[alpamānam tadgatapramāṇam ca]

kalpayugamanvantarāṇām gatāgatapratipādanāya āha ā

kāhaḥ manavaḥ ḍha manuyu-
gāḥ śkha gatāḥ te ca manuyugāḥ chnā ca |
kalpādeḥ yugapādāḥ
ga ca gurudivasāt ca bhāratāt pūrvam || 5 ||

kāhaḥ, manavaḥ, ḍha iti avibhaktikāḥ nirdeśāḥ, manuyugāḥ, śkha ayam api
avibhaktikāḥ eva, gatāḥ, te, ca avibhaktikāḥ, manuyugāḥ, chnā [avibhaktikāḥ], ca,
kalpādeḥ, yugapādāḥ, ga avibhaktikāḥ eva, ca, gurudivasāt, ca, bhāratāt, pūrvam |

kaḥ iti prajāpateḥ ākhyānam | kasya ahaḥ kāhaḥ, brahmadiwasāḥ iti arthaḥ | tasya
kāhasya kiyat pramāṇam iti āha ā manavaḥ ḍha | caturdaśa manavaḥ kāhasya
pramāṇam | brahmaṇāḥ divase caturdaśa manavaḥ parivartante | ekaikasya manāḥ
kiyat kiyat antaram iti āha ā manuyugāḥ śkha | dvāsaptatiyugāni manāḥ manoh antaram
| atra katham ucyate tad dvāsaptatiyugāni manoh antaram iti | anye punar anyathā
manyante ā

tad ekasaptatigunam manvantaram iha ucyate |

iti | ekasaptatiḥ caturyugāni manoh antaram | atra katham? ucyate ā ye evam manyante
teśām pūrvāparavirodhaḥ | ekasaptatiḥ caturyugāni manoh antaram iti uktvā ta evam
punar api āha ā

sahasrayugaparyantam ahar yat brahmaṇah viduh |
rātrim yugasahasrāntām te ahorātravidah janāḥ ||
[Śrīmadbhagavadgītā, 8.17; manusmṛtiḥ, 1.73]

iti | tatra ekasaptatiḥ caturdaśabhiḥ guṇitāni na eva yugasahasram bhavati | tasmāt
ucyate pūrvāparavirodhah | yadi ekasaptatiḥ manoh antaram, katham
caturdaśamanvantarāṇi yugasahasram bhavati? asmākam tu dvāsaptatiḥ caturyugāni
manoh antaram | aṣṭottaram sahasram brāhmaṇaḥ divasaḥ iti etat upapannam |

teṣu manuṣu caturdaśasu kiyantah manavaḥ vyatikrāntāḥ iti āha ā gatāḥ te ca | gatāḥ
ca-saṅkhyā, ṣaṭ iti arthaḥ | saptamasya manoh kiyanti yugāni iti āha ā manuyugāḥ chnā
| manoh saptamasya vyatītāni saptavimśatiḥ yugāni | aṣṭāvimśatitamasya yugasya
pādāḥ vyatītāḥ ga trisaṅkhyāḥ kṛtātretādvāparasamjñitāḥ | ca pādapūraṇe | gurudivasāt
ca bhāratāt pūrvam | guroḥ divasaḥ gurudivasāḥ, tasmāt gurudivasāt, bhāratāt ca
pūrvam | gurudivasena upalakṣitāt
bhāratāt pūrvam iti sāmānyena abhihitatvāt kaliyugādeḥ pūrvam iti vyākhyeyam |
anyathā pūrvaśabdāt atiricyate | ete manavaḥ, etāni ca yugāni, ete ca yugapādāḥ
vyatikrāntāḥ | cakāra etān eva arthān samuccinoti |

atra etat praṣṭavyam ā kim etāni yugāni yugapādāḥ ca tulyapramāṇāḥ āhosvit
bhinnapramāṇāḥ iti? kecit āhuḥ bhinnapramāṇāḥ iti | tad yathā ā

catvāri āhuḥ sahasrāṇi [varṣāṇām yat kṛtam yugam] |
tasya tāvat śatī sandhyā sandhyāṁśaḥ ca tathāvidhaḥ ||
itareṣu sasandhyeṣu sasandhyāṁśeṣu ca triṣu |
ekāpāyena vartante sahasrāṇi śatāni ca ||
[manusmṛtiḥ, 1.69-70]

asmākam punah tatra yugapādāḥ sarve eva tulyapramāṇāḥ | anyathā
atītānāgatagrahatiparijñānam eva na ghaṭate | ayam ca yugādigatanirdeśaḥ
grahatiparijñānāya eva | tad yathā ā ṣaṇmanavaḥ vyatikrāntāḥ iti | ṣaṇṇām ca
manūnām vyatītāni yugāni dvyagnyabdhayaḥ, 432 | etāni ca saptamasya manoh
saptavimśatih yugāni, tatsahitāni naveṣu abdhayaḥ, 459 | etāni vyatītayugāni varṣāṇi
kriyante | katham? khyughṛ-saṅkhyāni varṣāṇi yugapramāṇam | tena khyughṛ-guṇāni
varṣāṇi, vasvaṣṭāśvivasturandhrarūpāṇi ayutaguṇāni, 1982880000 | etāni ca
aṣṭāvimśatitamayugasya pādatrayasya varṣāṇi kṛtāśvyagnayaḥ ayutaguṇāḥ 3240000,
etaiḥ sahitāni arkartuvasurandhrarūpāṇi ayutaguṇāni 1986120000 etāvān kālah
kaliyugādau brahmadivasya atītāḥ | yāvanti varṣāṇi atītāni kaliyugasya tāvanti atra
prakṣpya ahargaṇāḥ kriyate | asmin ahargaṇe guroḥ prabhṛti dinavāraḥ,
kṛtayugādyahargaṇe budhāt, kaliyugādēḥ śukrāt | "budhāhni ajārkodayāt ca
laṅkāyām" iti kṛtayugādau budhavāsaropadeśāt kalpādēḥ guruḥ abhyūhitāḥ,
kaliyugādēḥ ca bhṛguḥ | evam kalpādīyaharguṇe, kṛtayugādyahargaṇe vā kriyamāṇe na
kasyadit kṣepaḥ |

yadā punah kaliyugavyatītāt eva ahargaṇāḥ kriyate, tadā śāsyuccasya rāśitrayam
kṣepaḥ, pātasya ṣadrāśayaḥ | katham? [dvāpa]rāntāharganām pātabhagaṇaiḥ
śāsyuccasya bhagaṇaiḥ ca pṛthak pṛthak saṅguṇayya bhūdivasaiḥ bhāgalabdhāni
maṇḍalāni, śeṣe dvādaśaguṇite bhūdivasaiḥ apahṛte ṣadrāśayaḥ pātasya, śāsyuccasya
ca trayāḥ rāśayaḥ labhyante | athavā caturbhiḥ samaiḥ yugapādaiḥ pātabhagaṇāḥ
śāsyuccabhaṇāḥ ca labhyante, tat etaiḥ samaiḥ tribhiḥ
yugapādaiḥ kiyantah iti bhagaṇāḥ labhyante | śeṣe dvādaśaguṇe [caturvibhakte
rāśayaḥ] iti | evam idam caturtham gītikāsūtram || 5 ||

[grahāṇām kakṣyāpramāṇāni]

ete grahāḥ bhramantaḥ kiyatpramāṇāsu kakṣyāsu bhramanti iti etat na jñāyate,
tatjñānārtham āha ā

śaśirāśayah ṛha cakram,
te amśakalāyojanāni ya-va-ñā-guṇāḥ |
prāṇena eti kalām bham,
khayugāṁśe grahajavaḥ, bhavāṁśe arkaḥ || 6 ||

[śaśirāśayah, ṛha avibhaktikāḥ, cakram, te, amśakalāyojanāni, ya-va-ñā-guṇāḥ,
prāṇena, eti, kalām, bham, khayugāṁśe, grahajavaḥ, bhavāṁśe, arkaḥ]

śaśigrahanāt abhīhitāḥ śaśibhagaṇāḥ parigṛhyante | te śaśibhagaṇāḥ rāśayah
kartavyāḥ | katham iti āha ā ṛha cakram, dvādaśarāśayah cakram bhavati iti |
śaśibhagaṇāḥ cakrasamjñitāḥ dvādaśabhiḥ guṇyante, tataḥ te rāśayah bhavanti | te
rāśayah amśakalāyojanāni kartavyāḥ | katham iti āha ā te amśakalāyojanāni ya-va-ñā-
guṇāḥ | "ya"guṇāḥ rāśayah amśāḥ, "va"guṇāḥ kalāḥ, "ñā"guṇāḥ yojanāni | evam imāni
ākāśakakṣyāyojanāni bhavanti |
vyomāṁbarakharasādrīṣukhayamādrisāgarādivedaravayah, aṅkaiḥ api
12474720576000, ākāśakakṣyā | yāvantam ākāśapradeśam raveḥ mayūkhāḥ samantāt
dyotayanti tāvān pradeśaḥ khagolasya paridhiḥ, khakakṣyā | anyathā hi aparimitatvāt
ākāśasya parimāṇākhyānam na upapadyate |

candramasaḥ liptā daśayojanāni iti ataḥ anutvāt candrabhagaṇaiḥ eva upadiṣṭā
khakakṣyā | anyeṣām bhagaṇaiḥ api eṣā śakyate eva | nanu tad yathā ā raveḥ
yugabhagaṇāḥ liptikṛtāḥ dvayekāgnirāmanavakāḥ daśalakṣābhyastāḥ, te ca aṅkaiḥ api
93312000000 | raveḥ liptāyojanāni rāmāgnīndavah, yojanāṣṭādaśasahastrabhāgāḥ ca

randhravasvagniravayah, aṅkaiḥ api likhyante

133

12389

18000 |

etaiḥ yojanaiḥ yojanabhāgaiḥ ca guṇitāḥ yugaraviliptāḥ khakakṣyāyojanāni bhavanti |
śanaiḥ carasya api liptāyojanāni khavedarandhrāgnayah, rūpābdhiraśāṅgarāmāṁśāḥ
khākāśāṣṭādrīndavaḥ, aṅkaiḥ api

3940

17800

36641 |

etaiḥ yugaśanaiḥ caraliptāḥ guṇitāḥ tāni eva khakakṣyāyojanāni bhavanti | evam
anyabhagaṇebhyah api khakakṣyāyojanāni bhavanti |

prāṇena eti kalām bham | nanu ca atra kakṣyāḥ prakrāntāḥ, tāsu prakrāntāsu "prāṇena
eti kalām bham" iti etat aprākaraṇikam | na etat asti | etāni sūtrāṇi | sūtreṣu ca kecit
arthāḥ prākaraṇikāḥ kecit aprākaraṇikāḥ, vicitratvāt sūtrāṇām | prāṇena ucchvāsena, eti
gacchatī, kalām liptām, bham jyotiścakram | pravaheṇa-ākṣipyamāṇam jyotiścakram
kalām eti ucchvāsatulyena kālena | jyotiścakram liptānām khakhaṣadghanam, tat
ahorātreṇa paryeti | ahorātrasya

prāṇāḥ khakhaṣadghanatulyāḥ | tena kalāḥ ca jyotiścakrasambandhāḥ prāṇāḥ ca tulyāḥ
| tasmāt chāyākaraṇādiṣu prāṇeṣu eva jyādikam karma pravartate |
jyotiścakrāhorātrayoh ādiḥ ravyudayāt iti kālakriyāpāde vistareṇa vyākhyāsyāmaḥ |

grahakakṣyāpradarśanārtham āha ā khayugāṁśe grahajavah | kha iti anena
pūrvanirdiṣṭā khakakṣyā parigṛhyate | yugagrahaṇena yugasambandhinaḥ grahāṇām
bhagaṇāḥ parigṛhyante | yadi khayugāṁśe grahajavah iti yugam parigṛhyate, ekatvāt
yugasya ekā eva sarveṣām grahāṇām kakṣyā syāt | khasya yugāṁśaḥ khayugāṁśaḥ |

khakakṣyāyāḥ svaiḥ svaiḥ yugabhaṇaiḥ bhāge hṛte yat labdham tat yugāṁśah |
tasmin yugāṁśe | grahāṇām javaḥ grahajavaḥ | javaḥ
vegaḥ gatiḥ iti arthāntaram | tāvati paridhipradeśe grahāḥ paribhramanti, svaiḥ svaiḥ
gativišeṣaiḥ | khakakṣyāyām svaiḥ svaiḥ yugabhaṇaiḥ bhāge hṛte yathāsvam
grahakakṣyāḥ bhavanti | [katham?] ucyate ā trairāśikagaṇitavišeṣeṇa | "śaṣṭyā
sūryābdānām" [kālakriyāí, 12] iti atra khyughṛ-tulyaiḥ arkavarṣaiḥ khakakṣyātulyāni
yojanāni sarve eva grahāḥ pūrayanti iti vakṣyati | tena yadi etāvadbhiḥ yugabhaṇaiḥ
iṣṭagrahasya [= iṣṭagrahasya yugabhaṇaiḥ] khakakṣyā
[labhyate], tataḥ ekena bhagaṇena kā iti svakakṣyā labhyate |

bhavāṁśe arkaḥ | bhasya vāṁśah bhavāṁśah, nakṣatraparidheḥ ṣaṣṭyamśah
sūryakakṣyā bhavati | katham ucyate nakṣatrapakṣyāyāḥ ṣaṣṭibhāgah sūryakakṣyā iti,
nakṣatrapakṣyāyāḥ asiddhatvāt? na atra sūryakakṣyā abhidhīyate | kim tarhi?
nakṣatrapakṣyā | katham? yā atra sūryakakṣyā sā nakṣatrapakṣyāyāḥ ṣaṣṭibhāgah |
sūryakakṣyā ca "khayugāṁśe grahajavaḥ" iti anena siddhā yadi nakṣatrapakṣyāyāḥ
ṣaṣṭibhāgah tadā sarvā nakṣatrapakṣyā kiyatī bhavati
iti ṣaṣṭyā gunyate, tadā tasyāḥ nakṣatrapakṣyāyāḥ pramāṇam bhavati | sā ca
vasugaganāṁbaraśūnyarasāśvīrāṁdriśaśinah, aṅkaiḥ api 173260008 | vicitratvāt
gaṇitanirdeśasya kvacit rāśih sakalah abhidhīyate, kvacit rāśeh ekadeśah | atra punah
rāśeh ekadeśena ṣaṣṭyamśena sakalah rāśih abhyūhyate |

iṣṭagrahakakṣyābhiḥ iṣṭagrahayojanakarṇāḥ ānīyante | yadi ā

caturadhikam śatam aṣṭaguṇam dvāṣaṣṭih tathā sahasrāṇām |
[gaṇitapādah, 10]

iti etāvatā paridhinā ayutapramāṇaviṣkambhārdham labhyate, tadā iṣṭakakṣyāparidhinā

kim iti tatkakṣyāyojanaviṣkambhārdham labhyate | tad eva yojanakarṇah
svasphuṭajijñāmsubhiḥ sphuṭikriyate | yadi vyāsārdhaliptābhiḥ iyāniṣṭayojanakarṇah
labhyate, tadā tena aviśeṣakarṇena bhūtārāgrahavivareṇa kiyān yojanakarṇah iti
sphuṭayojanakarṇah labhyate | evam idam pañcamam gītikāsūtram || 6 ||

[bhū-śaśi-grahāṇām vyāsāḥ]

yojanāni iti uktam | teṣām yojanānām pramāṇam na jñāyate | tatparijñānārtham
bhūgrahāṇām vyāsapramāṇapratipādanārtham ca āha ā

nṛṣi yojanam, nīlā bhū-
vyāsāḥ arkendvoḥ ghriñā giṇa, ka meroḥ |
bhṛgu-guru-budha-śani-bhaumāḥ
śaśi-ṇa-ṇa-ṇa-na-māṁśakāḥ, samārkasamāḥ || 7 ||

nṛṣi avibhaktikāḥ, yojanam, nīlā avibhaktikāḥ, bhūvyāsāḥ, arkendvoḥ, ghbiñā giṇa ka iti
ete avibhaktikāḥ nirdeśāḥ, meroḥ, bhṛgu-guru-budha-śani-bhaumāḥ, śaśi-ṇa-ṇa-ṇa-na-
māṁśakāḥ, samāḥ, arkasamāḥ |

nṛṇām śi nṛṣi, aṣṭau puruṣasahasrāṇi | nṛṣih eva yojanam nṛṣi yojanam | "puruṣāḥ
dhanurdandāḥ narah" iti paryāyāḥ | etat uktam bhavati ā aṣṭau dhanussahasrāṇi
yojanam | anena yojanapramāṇena nīlā bhūvyāsāḥ | "nīlā" iti pañcāśaduttaram
sahasram | nīlā eva bhūvyāsāḥ nīlā bhūvyāsāḥ, "vyāsāḥ viṣkambhāḥ vistaraḥ" iti
paryāyāḥ |

anye punar anyathā manyante ā jambūdvīpaviṣkambhāḥ, tataḥ dviguṇottarāḥ samudrāḥ
dvīpāḥ ca iti anayā prakriyayā dviguṇaśreḍhyāḥ caturdaśagacchāyāḥ yat sarvadhanam

tāvat pramāṇam tasya iti | etat api ca golapāde vistāreṇa vicārya pratyākhyāsyāmaḥ | anyat ca tatra eva akṣonnatyā bhūparidhiyojanānayanam upadekṣyāmaḥ | atha tu purāṇe gaṅgādvārakumāryantarālam yojanasahasram ucyate | tat ca [na] pratyakṣeṇa upalabhyate | tat yathā ā laṅkojjayinyoḥ
antarālam yojanānām śatadvayam | laṅkātah dūrat uttareṇa kumārī | tathā ca kumāryujjayinyoḥ antarālam na yojanaśatadvayam api pūryate | ujjayinyāḥ gaṅgādvāram na yojanaśatamātram api | evam gaṅgādvārakumāryantarālam yojanaśatatravayam api na pūryate, kim ucyate yojanasahasram iti | atha anye manyante viśayāntarabahutvāt bhuvaḥ mahattvam iti | yathā pāraśava-kulaparvata-[ku]ru-prabhṛtayah deśāḥ yojanaśatasāṅkhyayā śrūyante, tena bhuvaḥ mahattvam iti | tat ca na, golākāratvāt bhuvaḥ | tatprṣṭhaparidhyuparicakravyavasthitāḥ ete deśāḥ iti etat sarvam eva sambhavati | athavā tatra alpapramāṇāni yojanāni śrūyante, yena ekena divasena viṁśatimātrāṇi yojanāni gacchanti iti | tasmāt etāvān eva bhūvyāsaḥ |

bhūvyāsaḥ gaṇitena api ānetum śakyate | tat yathā ā sphuṭatithih tāvat sūryagrahaṇe pūrvāparayoḥ kapālayoḥ pare [= parame tithau] vijñāyate eva | tatra parāyām [=amāyām] tithau udayāstamayayoḥ catasrah nāḍikāḥ apacīyante upacīyante vā | tatra kāle dṛgjyā vyasārdham, ādityasya [lambanam] madhyamagatyā tisrah liptāḥ ṣaṭpañcāśadviliptāḥ ca [3' 56"] | candramasah api dvāpañcāśalliptikāḥ sārdhāḥ [52' 30"] | ubhayoḥ api sūryācandramasoh vīparītakarmanāḥ svābhiḥ svābhiḥ lambanaliptābhiḥ svayojanakarṇāvabhyasya, dṛggatijyayā vyāsārdhatulyayā vibhajya, sūryācandramasoh bhūvyāsārdham pr̥thak pr̥thak labhyate | taddviguṇam bhūvyāsaḥ | ataḥ suṣṭhu uktam ācāryeṇa "ñilā bhūvyāsaḥ" iti |

arkaḥ ca induḥ ca arkendū, tayoḥ arkendvoḥ, vyāsaḥ iti anuvartamānāt, ghriñā catuścatvāriṁśacchatāni daśottarāṇi [4490] arkasya vyāmsaḥ | indoḥ giṇa śatatravayam pañcadaśottaram [315] | sūryācandramasoh yojanavyāsau etau | liptābhiḥ vyavahāraḥ

iti liptāvyāsah kriyate ā yadi svayojanakranena vyāsārdhaliptāḥ labhyante tadā
yojanavyāsaiḥ kiyantah iti liptāvyāsalabdhīḥ, madhyamayojanakarṇena madhyamah,
sphuṭena sphuṭah | ka meroḥ | meroḥ ekayojanam vyāsah
| etat api ca "meruh yojanamātrah" [golapādah, 11] iti asyām kārikāyām vakṣyāmaḥ |

bhṛgu-guru-budha-śani-bhaumāḥ | bhṛguḥ ca guruḥ ca budhaḥ ca śaniḥ ca bhaumāḥ ca
bhṛgugurubudhaśanibhaumāḥ | atra api ṣaṣṭyā nirdeśah yuktaḥ,
bhṛgugurubudhaśanibhaumānām vyāsah iti | na etat asti | yadā vyatirekah vivakṣitah
tadā vyatirekalakṣaṇā ṣaṣṭhī bhavati | yadā punar vyatirekan eva na vivkṣitah tadā
ṣaṣṭhī na utpadyate | tat yathā kaścit kañcana bravīti "ādityasya bimbam paśa" iti |
tadābimbavyatirekeṇa ādityah, ādityavyatirekaṇa vā bimbam
nirdiṣṭam bhavati | yadā punar avyatirekavivakṣā tadā yat eva bimbam sa eva ādityah |

na īkṣeta udyantam ādityam na astam yāntam kadācana
[manusṛtiḥ, 4.37]

iti ādi | atra api ayam eva | bimbāvyatiriktāḥ grahāḥ nirdiṣyante | śaśi-ṇa-ṇa-ṇa-na-ma-
amśakāḥ | śaśivyāṁsasya anantaroktasya ḡa-ṇa-ṇa-na-māmśakāḥ, ete bhṛgu-guru-
budha-śani-bhaumāḥ | śaśivyāsasya ḡāmśah bhṛguḥ pañcabhāgah, ḡāmśah guruḥ
daśabhāgah, ḡāmśah budhaḥ pañcadaśabhāgah, ḡāmśah śaniḥ viṁśatibhāgah,
māmśah bhaumāḥ pañcavimśatibhāgah | etāni candrakakṣyāpramāṇaparimāṇāni
grahāṇām vyāsayojanāni |

atha kim iti svakakṣyāpramāṇasambhavāni eva ca yojanāni na ucyante? ayam
ācāryasya abhiprāyah ā yadi grahāṇām svakakṣyāniśpannāni vyāsayojanāni
abhidhīyante tadā vyāsaliptānayane svakakṣyotpannāḥ sphuṭayojanakarṇāḥ
bhāgahārāḥ syuḥ, lambanadṛkkṣepaliptānayane ca | tathā grahāṇām manāg api

lambanadrkkṣepaliptāḥ na syuḥ | dr̥syante ca teṣām lambananativiśeṣāḥ | tadartham
atra bhāgahārāḥ pradarśyante | katham? śaśi-ṇa-ṇa-ṇa-na-ma-amśakāḥ
iti | śaśivyāsasya yojanapramāṇasya liptānayane śaśiyojanakarṇaḥ bhāgahāraḥ | tena
sa bhāgahāraḥ pañcādibhiḥ gunyate | sa tāvat chedāḥ śaśivyāsaḥ śukrādivyāsaḥ
bhavati |

śukrasya

315

171885;

guroḥ

315

343770;

budhasya

315

515655;

śaneḥ

315

687540;

bhūtanayasya

315

859425;

uparimāṁśaḥ vyāsārdhena gunītaḥ chedena vibhaktāḥ liptāgataḥ grahavyāsaḥ bhavati
madhyamah | sphuṭārtham punar yathā ā svabhūtārāgrahavivareṇa chedān
samguṇayya vyāsārdhena vibhajet, sphuṭāḥ bhavanti | te eva grahayogesu
bhūvyāsārdhaguṇitasya svadr̥ggateḥ svadr̥kkṣepasya ca bhāgahārāḥ, phalam
lambanāvanatiliptāḥ iti |

catvāri mānāni vakṣyante saura-sāvana-nākṣatra-cāndrāṇī | tatra na jñāyate kena

mānena śāstre asmin vyavahārah kartavyah iti atah āha ā samārkarasamāh | samāh
varṣam, samāh asmin śāstre arkasamāh | arkeṇa varṣeṇa vyavahartavyam asmin |
asya eva niścayāvagamanārtham vakṣyati "śaṣṭyā sūryābdānām" [kālakriyāpādah, 12]
iti ādi | evam idam ṣaṣṭham gītikāsūtram || 7 ||

[paramāpakramah grahavikṣepah ca]

ete grahāḥ svakakṣyāsu bhramantah viṣuvate uttareṇa dakṣiṇena ca vyāvartamānāḥ
lakṣyante | tasmāt tatparijñānārtham āha ā

bhāpakramah grahāṁśāḥ,
śaśivikṣepah apamaṇḍalāt jhārdham |
śani-guru-kuja kha-ka-ga-ardham,
bhṛgu-budha kha, scāṅgulah ghahastah nā || 8 ||

bhāpakramah, grahāṁśāḥ, śaśivikṣepah, apamaṇḍalāt, jhārdham, śani-guru-kuja, kha-
ka-ga-ardham, bhṛgu-budha, kha scāṅgulah, ghatastah, nā |

bha caturvimśatih | bha eva apakramah bhāpakramah | prāṇmukha[gamanena]
yaddakṣiṇena uttareṇa vā samarekhātah apagamanam apakramah | keśām ayam
apakramah kimātmakah vā caturvimśatih iti āha ā grahāṁśāḥ | grahāṇām ādityādīnām
ete amśakāḥ rāseḥ triṁsadbhāgāḥ | samarekhātah uttareṇa caturvimśatibhāgān grahah
apakrāmati meṣavṛṣamithuneṣu krameṇa, tān eva apakramabhāgān utkrameṇa
karkaṭakasimhakanyāsu nivartate; dakṣiṇena
tulāvṛścikadhanuhuṣu [krameṇa] tān eva utkrameṇa makarakumbhamīneṣu iti |

atra grahagrahaṇam kim artham kriyate? grahāṇām sarvesām eva ete

apakramāṁśakāḥ yathā syuḥ iti, anyathā hi keśām eva syuḥ | na etat asti | atra grahāḥ
prakṛntāḥ teśām prakṛtavāt grahāṇām eva ete amśakāḥ na anyeśām | avaśyam
grahagrahaṇam kartavyam | apakramamaṇḍalāt vikṣepāṁśāḥ ucyante |
apakramamaṇḍalāt jhārdham candraḥ vikṣipati tathā śanigurukujabhr̥gubudhāḥ svān
bhāgān vikṣipanti | yasmāt candrādīnām apakramamaṇḍalāt vikṣepabhāgāḥ
abhidhīyante atah candrādīnām eva kevalānām apakramabhāgāḥ api syuḥ na ādityasya
| grahagrahaṇe punaḥ kriyamāṇe sarveśām eva apakramabhāgāḥ siddhyanti iti |

śaśivikṣepaḥ apamaṇḍalāt jhārdham | śaśināḥ vikṣepaḥ śaśivikṣepaḥ | saḥ
apamaṇḍalāt | apa-maṇḍalam apakramamaṇḍalam, tasmāt apakramamaṇḍalāt,
uttareṇa dakṣiṇena vā candrasya vikṣepaḥ | viśuvan maṇḍalāt apakramah uttareṇa
dakṣiṇena vā, apakramamaṇḍalam [ca], tasmāt vikṣepaḥ uttareṇa dakṣiṇena vā |
jhārdham, jhakāreṇa nava, jhasya ardham jhārdham, ardhonapañcabhāgāḥ
candramasaḥ vikṣepaḥ | tathā eva apakramamaṇḍalāt eva śeṣāṇām
api grahāṇām vikṣepaḥ |

śani-guru-kuja kha-ka-gārdham | śanigurukujānām yathāsaṅkhyena, śaneḥ kha, dvau
[bhāgau] vikṣepaḥ; guroḥ ka, ekaḥ bhāgaḥ; kujasya gārdham, gakāreṇa trayāḥ bhāgāḥ,
gasya ardham gārdham, sārdhaḥ amśaḥ | bhṛgu-budha kha | bhṛgubudhayoḥ kha-
saṅkhyā vikṣepaḥ dvau bhāgau | atra "bhṛgubudhaśānīnām kha" iti ucyamāne
khakāragrahaṇam ekam na kartavyam bhavati, tat kim iti ācāryeṇa pṛthak pāṭhena dvīḥ
khakāragrahaṇam kṛtam? ucyate ā pṛthak
pṛthak karmapradarśanārtham; śanigurukujānām ekam vikṣepakarma bhṛgubudhayoḥ
anyat, tasmāt etat karmadvayam iti pṛthak pṛthak pāṭhāt eva siddhyati |

"nr̥si yojanam" iti atra puruṣaḥ eva kevalaḥ abhihitāḥ | saḥ puruṣaḥ katyaṅgulaḥ,
katihastāḥ vā iti etat na upadiṣṭam | tadartham āha ā scāṅgulaḥ | sakāreṇa navatiḥ,

cakāreṇa ṣaṭ, scāṅgulah ṣaṇṇavatyaṅgulah | aṅgulasya pramāṇam gaṇitaparibhāśātah
pratipattavyam ā aṣṭau yavamadhyānyaṅgulapramāṇam iti ādi | ghahastah caturhastah
| nā puruṣah | nanu ca "nṛṣiyojanam" iti atra eva etat vaktum yuktam | evam manyante |
yathā iṣṭagrahayaṇeṣu antaram

vikṣepaliptah labhyante | aṅgulāni hastān ca kṛtvā grahayoh antaram avadhāryam iti |
evam api vijñāyate eva kiyatibhiḥ liptabhiḥ aṅgulam bhavati iti | atra svadhiyā
pratidinagrahacāragaṇitaniṣṭayā abhyūhyam | uddeśataḥ tu svadhiyā upalakṣitam
ucyate ā

yoge pādāṅgulam liptā yathā vā lakṣyate dṛśā |

[mahābhāskarīyam, 6.55]

iti | evam idam saptamam gītikāsūtram || 8 ||

[grahoccapātasthānāni]

candrapātāt pravṛttasya candramasoh vikṣepah sādhyate | anirdiṣṭatvāt pātasya,
grahāṇām punah kasmāt prabhṛti vikṣepah sādhyante eva iti etat na jñāyate | atah
teśām pātabhāgānām mandoccabhbhāgānām ca pratipādanāya āha ā

budha-bhṛgu-kuja-guru-śani na-va-
rā-ṣa-ha gatvā amṛśakān prathamapātāḥ |
savituḥ amīśām ca tathā
dvā-ñakhi-sā-hdā-hlyā-khīcyā mandoccam || 9 ||

budha-bhṛgu-kuja-guru-śani avibhaktikah nirdeśah, na-va-rā-ṣa-ha ayam api

avibhaktikah, gatvā, amśakān, prathamapātāḥ, savituh, amīśām, ca, tathā, dvā ūnakhi sā
hdā hlyā khicya etāni api dvādīni avibhaktikāni, mandoccam |

budha-bhrgu-kuja-guru[-śani] avibhaktikam etat grahaṇakavākyam | sūtrāṇām
sopasaṃskāratvāt saṃskāram apekṣate | kah asya saṃskārah? prakrāntadyotikayā
vibhaktyā samyogaḥ, budha-bhrgu-kuja-guru-śanīnām iti | eteśām budhādīnām
"nā"dayah amśāḥ | yathāsaṅkhyena budhasya na viṁśatih, bhrgoh va ṣaṣṭih, kujasya rā
catvārimśat, guroh ṣa aśītih, śaneḥ ha śatam | etān amśakān gatvā, eteśām budha-
bhrgu-kuja-guru-śanīnām prathamapātāḥ vyavasthitāḥ
iti | prathamapātagrahaṇam dvitīyapātanirākaraṇārtham | yadi prathamapātagrahaṇam
na kriyate tadā sāmānyena dvayoh api pātayoh grahaṇam syāt | tathā ca
vikṣepādigrahaṇe niścayah na syāt, yasmāt prathamapātāt uttareṇa grahāṇām
vikṣepah bhavati, dvitīyāt pātāt dakṣiṇena | uktam ca ā

prathamāt pātāt śaśinah apamaṇḍalasya uttareṇa vikṣepah |
vikṣepah dakṣiṇataḥ punar api pātāt dvitīyāt ca ||

iti | ete eva pātāḥ ūadrāśiyutāḥ dvitīyapātāḥ bhavanti | atra "gatvā amśakān
prathamapātāḥ" iti ucyate | yadi grahapātāḥ calanti tadā evam yuktam vaktum ā etān
amśakān gatvā prathamapātāḥ vyavasthitāḥ iti | bāḍham calanti ete grahapātāḥ,
anyathā hi ayam nirdeśah eva na ghhaṭate "gatvā amśakān" iti | yadi eteśām
grahapātānām [gatiḥ tarhi] candrapātavat yugabhagaṇanirdeśah kim iti ācāryeṇa na
kriyate ? anyat ca, yadi eteśām gatiḥ syāt grahavikṣepāḥ na sphuṭāḥ
bhavayuh | atyantasūkṣmā eśām gatiḥ, mahatā kālena kiyatī upacīyate, tataḥ stokatvāt
antarasya vikṣepāḥ sphuṭāḥ eva lakṣyante | ācāryeṇa gatimatvam pātānāt nirdeśatā
teśām gatiḥ api nirdiṣṭā eva "yasmāt iṅgitenā, ceṣṭitenā, nimiṣitenā, mahatā vā
sūtraprabandhena ca, ācāryāṇām abhiprāyah gamyate" | tasmāt anena eva

sūtrabandhena grahapātānām gatimatvam upadiṣatā teṣām yugabhagaṇān muktakāt
eva nirdiṣṭavān, anyathā hi teṣām gatimatvanirdeśah anarthakah
syāt | sampradāyāvicchedāt smaranti vṛddhāḥ tat yugabhagaṇam | tat yathā ā

vasvabdhiyamāśvikhabāṇādrīśuhutāśanaḥ yugābdagaṇaḥ |
pātānām śataguṇītaḥ muktakakathitam kila āryeṇa ||
ekatridvicaturiṣūn kramaśaḥ bhagaṇān prayānti sarveṣām |
kalpādeḥ gatakālāt gaṇaṇīyam atah gatiḥ teṣām ||

tadānayanam idānīm ā kalpādeḥ abdanirodhāt ayam abdarāśih iti īritah
khāgnyadrirāmārkarasavasurandhrendavah | te ca aṅkaiḥ api 1986123730 | asmin
budhādipātabhagaṇaguṇite svayugavibhakte bhagaṇādayaḥ pātabhogaḥ labhyante |
pātayugapramāṇam sarveṣām eva "khākāśāṣṭakātadvividvivomeśvadrīśuvahnayah"
aṅkaiḥ api 35750224800 | etaiḥ yugavarṣaiḥ budhasya pātah bhagaṇam ekam bhuṇkte,
śukrasya trīṇi, kujasya dvau, guroḥ catvāraḥ, śanipātah
pañca | eteṣām yathāsvam labdhāḥ pātabhāgāḥ yathāpathitāḥ, etat eva guruśanaiḥ
carayoḥ ekā tatparā [ca] labhyate |

ayam aparah prakāraḥ ā budha-bhṛgu-kuja-guru-śani | prathamābahuvacanasamaskṛtam
idam grahaṇakavākyam vyākhyāyate budha-bhṛgu-kuja-guru-śanayah | na-va-rā-ṣa-ha
iti etān amśakān meśādiparamāṇoh prabhṛti gatvā prathamapātēsu vyavasthitāḥ iti
arthah | atra "tātsthyaṭ tācchābdyam", yathā "mañcāḥ kroṣanti", mañcastheṣu kroṣatsu
mañcāḥ kroṣanti iti ucyate | evam atra api prathamapātavyavasthitān eva grahān
prathamapātah iti uktavān | tadā tāvantah
eva bhāgāḥ, na ete calanti | yadi api kaiścit eṣām gatiḥ ucyate tathā api asmākam
nādarah, yena atimahatā api kālena manāg api antaram na bhavati, yataḥ kaliyugānte
śanaiḥ carapātasya tisrah liptāḥ, na kiñcit antaram | kaliyuge ca parisamāpte sarvam

eva jagat pralīyate, pralīne ca jagati punar anyā srstih jāyate, tatra na jānīmah kim
bhaviṣyati iti | atha ca antare ne kiñcit antaram, na kaścit viṣeṣah | yat api uktam
ācāryeṇa tat śāstrabhāvaprakriyāsampradāyāvicchedapradarśanārtham
| anyathā hi anantatvāt kālasya gatih eṣām alpā api upacīyamānā mahatī sañjāyate | sā
ca anyathā na pratipattum śakyate iti pātayugabhagaṇanirdeṣah |

savituh amīṣām ca | savituh ādityasya, amīṣām ca grahāṇām
budhabhṛgukujuruśānīnām mandoccabhbhāgāḥ, kena eva prakāreṇa savituh dvā
aṣṭasaptatibhbhāgāḥ, budhasya ḡakhi śatadvayam daśottaram, bhṛgoḥ sā navatiḥ,
kujasya hdā śatam aṣṭādaśottaram, guroḥ hlyā sāśītikam śatam, śaneḥ khicya
śatadvayam ṣaṭtrimśaduttaram mandoccam | ete bhāgāḥ eṣām grahāṇām pṛthak pṛthak
mandoccam | mandoccānām bahutvāt mandoccāni iti bhavitavyam | na
etat asti | sāmānyopakramah atra kṛtaḥ, yathā ā "rakṣohāgamalaghvasandehāḥ
prayojanam" [aṣṭādhyāyī, 1.1.1., pātañjalabhāṣyam] iti, evam atra api "dvā ḡakhi sā hdā
hlyā khicya mandoccam" |

atra śīghroccam mandoccam iti | yasya śīghrā gatih tat śīghroccam, yasya punar gatih
eva na asti tat mandoccam iti | katham? ucyate | loke ā "śīghraḥ devadattah" yaḥ hi
kṣiprataram gacchati sa śīghraḥ, "mandah yajñadattah" iti yaḥ hi mandataram gacchati
sa mandah | evam atra api yasya atīśīghragatih grahagatēḥ tat śīghroccam | yasya
punar grahagatēḥ alpīyasī gatih [tat mandoccam] | evam grahāṇām api yuktam eva etat
|

atha kim iti mandoccagatih na abhihitā? ucyate ā sūkṣmatvāt ācāryasya na atra ādarah,
mahatā api kālena na kiñcit eva antaram bhavati | api ca muktakena eva ācāryeṇa
abhihitam iti sampradāyāvicchedāt avadhāryate | athavā gatvā amṣakān savitrādīnām
mandoccāni vyavasthitāni iti vyākhyāyate | anyathā hi "tathā"-śabdaḥ sārthakah na syāt

| yathā budhādīnām prathamapātāḥ "nā" dīn amśakān gatvā vyavasthitāḥ, evam eteśām
savitrādīnām mandoccāni

"dvā" dīn amśakān gatvā vyavasthitāni iti | teśām ca mandoccānām atyantasūkṣmatvāt
varṣagaṇena eva ācāryena yat ākhyātām tat eva avyavacchinnasampradāyapratipattyā
abhidhīyate | tat yathā ā

asṭikṛtādṛyaṣṭinavājaiḥ uccayugam tigmādīdhiteḥ uktam |
daśaghanagunītaiḥ abdaiḥ viśvān bhuṇkte kramāt bhagaṇān ||
dantāṣṭābdhyagniguṇāṣṭarāmayamalāḥ yugam bhavati abdhāḥ |
śataguṇītāḥ śāśijasya prāhuḥ bhagaṇān ca sapta eva ||
vyomāmbaravedakṛtacchidrābdhikṛtābdhinandaśailābdāḥ |
śukrasya ardham sūreḥ bhagaṇāḥ bhogaḥ tayoḥ ekaḥ ||
vyomāmbaraśūnyakṛtāśvirodraśaraśailavasumunīndusamāḥ |
asitoccayugam kaujam dviguṇān bhaga[ṇā]naveśavastu tayoḥ ||
kalpādikālagaṇītā mandoccānām bhavanti yā gatayah |
"gatvā"śabdāt etat vyākhyātā bhāskareṇa atra ||

tat yathā ā mandoccānayanam pratyeteśām kalpādeḥ abdanirodhāt gatakālaḥ
khāgnyadrirāmārkarasavasurandhrendavah, te ca 1986123730 | eteśu varṣeṣu
yathāsvam mandoccabhaṇagunītēsu svayugābdavibhakteṣu ravyādīnām
mandoccānām rāśibhāgādayah labhyante | eteśām api kaliyugānte api alpam antaram,
yataḥ ca śanaiḥ carasya api saptamātrā liptā mandoccasya upacayaḥ, na kaścit
phalavišeṣah | yathā api tu śāstrasampradāyāvicchittikathane grahapātēṣu uktam
tat atra api avadhāraṇīyam iti | evam idam aṣṭamam gītikāsūtram || 6 ||
[ojapadayoḥ mandaśīghraparidhayaḥ]

mandaśīghroccaparidhipramāṇapratipādanāya āha ā

jhārdhāni mandavṛttam
śaśinah̄ cha, ga-cha-gha-ḍha-cha-jha yathā uktebhyah̄ |
jhā-gḍa-glā-rdha-dḍa tathā
śani-guru-kuja-bhṛgu-budhoccasīghrebhyah̄ || 10 ||

jhārdhāni, mandavṛttam, śaśinah̄, cha ga cha gha ḍha cha jha ete chādayah̄
avibhaktikanirdeśah̄, yathā uktebhyah̄, jhā-gḍa-glā-rdha-dḍa avibhaktikah̄ nirdeśah̄,
tathā śani-guru-kuja-bhṛgu-budhoccasīghrebhyah̄ |

jhārdhāni | jhasya ardhāni jhārdhāni | vakṣyamāṇāni mandaśīghroccavṛttāni
jhārdhapramāṇāni pratipattavyāni | mandavṛttam iti ekavacananirdeśah̄ | "pratyekam
vākyaparisamāptih" [aṣṭādhyāyī, 1.1.1, pātañjalabhāṣyam] iti anena nyāyena
mandavṛttam śaśinah̄ cha, sapta jhārdhāni, sārdhaikatrimśat bhāgāḥ; yathā uktebhyah̄
mandoccabhbāgavidhbānakramena savitṛ-budha-bhṛgu-kuja-guru-śanayah̄ parigṛhyante |
savituḥ ga, trīṇi jhārdhāni, sārdhatrayodaśabhāgāḥ
| budhasya cha, sapta jhārdhāni, sārdhaikatrimśadbhāgāḥ | bhṛgoḥ gha, catvāri
jhārdhāni, aṣṭādaśabhāgāḥ | kujasya ḍha, caturdaśa jhārdhāni, triṣaṣṭibhāgāḥ | guroḥ
cha, sapta jhārdhāni, sārdhaikatrimśadbhāgāḥ | śaneḥ jha, nava jhārdhāni,
sārdhacatvārimśadbhāgāḥ | yathā uktebhyah̄ yathā uktam yathoktam, tebhyah̄ yathā
uktebhyah̄ | savitrādīnām ca mandoccebhyah̄ | nanu ca atra sambandhalakṣaṇayā
śaṣṭhyā bhavitavyam, yathā uktānām iti | na etat asti | yathā uktebhyah̄
iti anayā pañcamyā mandoccaviśuddhebhyah̄ rāśibhyah̄ mandoccāt adhikebhyah̄
rāśibhyah̄ vā rāśyādibhyah̄ jyāvibhāgena ete paridhayaḥ gunakārāḥ | yathā uktebhyah̄
iti anena eva vacanena mandoccām grahamadhyāt pātyate, pariśiṣṭasya
jyāsaṅkalanāya traīrāśikam kriyate | paridhisamskārakaraṇam ca
traīrāśikaprasiddhyartham | yady asya ṣaṣṭiśatatravaparidheḥ iyam jyā tataḥ

abhiṣṭagrahapharidheḥ kā jyā labhyate | sā eva jyā bhujāphalam koṭiphalam ca iti
abhidhīyate

| tatra jhārdhena apavartya ṣaṣṭiṣatatravaparidhim yathā uktāḥ ca grahapharidhayaḥ
jhārdhāpavartitāḥ | tena guṇakārabhāgahārayoḥ jhārdhāpavartitayoḥ karmaṇi
kriyamāṇe iṣṭajyāyāḥ aśītih bhāgahāraḥ yathoktākṣarasaṅkhyāparidhayaḥ guṇakārāḥ |

śīghroccaparidhayaḥ ā jhā, nava jhārdhāni, catvārimśat sārdhāḥ bhāgāḥ śaneḥ | gṛda,
śoḍāśa jhārdhāni, dvāsaptatibhāgāḥ guroḥ | glā, tripañcāśat jhārdhāni, śatadvayam
aṣṭatrimśaduttaram sārdham bhāgānām kujasya | rdha, ekonaṣaṣṭīḥ jhārdhāni,
pañcaṣaṣṭyadhikaśatadvayam sārdham bhāgānām bhṛgoḥ | dṛḍa ekatrimśat jhārdhāni,
ekonacatvārimśaduttaram śatam sārdham bhāgānām budhasya | śāni-guru-kuja-bhṛgu-
budhoccāśīghrebhyah |

śāni-guru-kuja-bhṛgu-budhānām uccaśīghrāḥ tebhyaḥ śāni-guru-kuja-bhṛgu-
budhoccāśīghrebhyah |

śīghroccebhyaḥ iti vaktavye uccaśīghrebhyah iti viparītanirdeśam kurvan ācāryaḥ
jñāpayati ā śīghroccāt grahaḥ śodhyate iti | tasmāt śuddhaśeṣāt jyā utpādyante | tābhiḥ
trairāśikam pūrvavat | pūrvam ācāryeṇa mandakramena grahāḥ nirdiṣṭāḥ | śāśī
sarvebhyaḥ śīghraḥ lakṣyate, tasmāt mandaḥ savitā, tataḥ mandaḥ budhaḥ, tathā
uttaram bhṛgu-kuja-guru-śanayaḥ | ayam punar śīghrakramāḥ, śāni-guru-kuja-bhṛgu-
budhāḥ iti | ete śānyādayaḥ yathā uttaram
śīghrāḥ | evam idam navamam gītikāsūtram || 10 ||

[yugmapadayoḥ mandaśīghraparidhayaḥ]

etebhyaḥ eva mandaśīghrebhyah dvitīyacaturthapadaparidhipramāṇaparijñānāya āha ā

mandāt ḡa-kha-da-ja-ḍā
vakriṇām dvitīye pade caturthe ca |
jā-ṇa-kla-chla-jhna uccāt
śīghrāt, giyinśa kuvāyukakṣyā antyā || 11 ||

mandāt, ḡa kha da ja ḡā iti etāni avibhaktikāni, vakriṇām, dvitīye, pade, caturthe, ca, jā
ṇa kla chla jhna etāni avibhaktikāni, uccāt, śīghrāt, giyinśa avibhaktikāḥ, kuvāyukakṣyā,
antyā |

mandāt | tathā eva mandoccaviśuddhāt rāśyādikāt utpannāyāḥ jyāyāḥ ete
paridhisamjñitāḥ guṇakārāḥ | tathā eva jhārdhapramāṇaparimitāḥ ā budhasya ḡa,
pañca jhārdhāni, dvāvīṁśatissārdhabhāgāḥ, bhṛgoḥ kha, dve jhārdhe, nava bhāgāḥ |
kujasya da, aṣṭādaśa jhārdhāni, ekāśītibhāgāḥ | guroḥ ja, aṣṭau jhārdhāni,
ṣaṭtrimśadbhāgāḥ | śaneḥ ḡā, trayodaśa jhārdhāni, aṣṭapañcāśat sārdhabhāgāḥ |

vakriṇām dvitīye pade caturthe ca | vakram yeśām te vakriṇāḥ | vakriṇāḥ iti anena
śāśisavītroḥ agrahaṇam, yena tayoḥ vakrā gatīḥ na asti | vakriṇāḥ ca budha-bhṛgu-kuja-
guru-śanayaḥ | teśām ete paridhayaḥ | dvitīye pade caturthe ca | ye pūrvābhīhitāḥ
paridhayaḥ te utsargeṇa caturṣu padeṣu prāptāḥ | teśām dvitīyacaturthayoh padayoh
ete paridhayaḥ apavādena abhidhīyante | dvitīyacaturthapādavyatirekeṇa
pūrvoktāparidhīnām viṣayaḥ | cakāraḥ dvitīyeṣu
ca caturtheṣu ca iti etat artham samuccinoti |

athavā ā vakriṇām dvitīye pade | ete budhādayaḥ grahāḥ dvitīye pade vakriṇāḥ bhavanti
| vakrām gatim caranti iti arthaḥ | nanu ca mandagrahaṇānantaram dvitīye pade
vakriṇāḥ iti ucyante, tena mandoccasya dvitīyapade vakraparijñānam prāpnoti, tat ca na
iṣyate | na etat asti | vakriṇāḥ dvitīye pade budhādayaḥ iti sāmānyena ucyate |

"sāmānyacodanāḥ ca viśeṣe avatiṣṭhante " iti viśeṣe avasthāpyate | kah̄ ca viśeṣah̄ ?
śīghroccadvitīyapade eteṣām budhādīnām
vakraparijñānam iti ayam viśeṣah̄ | uktam ca ā

mandoccāt anulomam pratiłomam ca eva śīghroccāt |

[golaí, 17]

iti | caturhe ca | ete paridhayaḥ dvitīye caturthe ca pade gunakārāḥ | dvitīye eva pade
vakraparijñānam anyatra api ā

prathame dṛśyavidhānam dvitīyapadagāḥ tu vakragāḥ sarve |
anuvakragāḥ trīye pade caturthe astam upayānti || iti |

jā ṣa kla chla jhna | śīghroccāt dvitīyacaturthayoh̄ padayoh̄ paridhayaḥ | śaneḥ jā, aṣṭau
jhārdhāni, ṣatṛīmśadbhāgāḥ | guroḥ ṣa, pañcadaśa jhārdhāni, saptasaṣṭiḥ
sārdhabhāgāḥ | kujasya kla, ekapañcāśat jhārdhāni, ardhonakam triṁśaduttaram
śatadvayam bhāgānām | bhṛgoḥ chla, saptapañcāśajjhārdhāni, sārdham
ṣaṭpañcāśaduttaram śatadvayam bhāgānām | budhasya jhna, ekonavimśajjhārdhāni
triṁśaduttaram śatam sārdham bhāgānām |

uccāt śīghrāt | atra api śīghroccāt iti vaktavye uccāt śīghrāt iti viparītagrahaṇam
kurvannāccāryah̄ jñāpayati ā śīghroccāt grahaḥ śodhyate iti | padacatuṣṭayagrahaṇāt ca
karmacatuṣṭayam ā prathamam mandoccakarma, tadanantaram śīghrakarma, punar
mandakarma, tadanantaram śīghrakarma | tataḥ grahasphuṭaḥ labhyate | ravicandrayoh̄
ekaparidhinirdeśat ekam eva karma |

atha kaścit jyārahitam karma kartum icchatī, tadartham āha ā giyinśa kuvāyukakṣyāntyā

| trayastrimśacchatāni pañcasaptatyadhikāni [3375] kuvāyukakṣyāpramāṇam | kuḥ
bhūḥ, kuvāyuḥ bhūsambandhī vāyuḥ, tasya iyam antyā kakṣyā | etāvataḥ
vāyukakṣyāparicchinnākāśapradeśāt parataḥ niyataḥ vāyuḥ yena niyatagatinā
pravahena jyotiścakram idam bhrāmyate | kuvāyukakṣyāpramāṇaparicchinnāt
ākāśapradeśāt ārādaniyatāḥ vāyavaḥ itaḥ tataḥ paribhramanti

|

kuvāyukakṣyāyāḥ grahakarma ā ye abhīṣṭāḥ bhāgāḥ tān cakrārdhabhāgebhyaḥ
viśodhya śeṣam taiḥ eva abhīṣṭabhāgaiḥ guṇitam pratirāśya ekam kuvāyukakṣyāyāḥ
dvādaśaguṇitāyāḥ śodhyate, tataḥ śeṣasya yaḥ caturthomśaḥ sa bhāgahāraḥ | yat
pratirāśitam tat antyaphalena guṇitam bhāgahāreṇa vibhajet | labdham abhīṣṭaphalam |
uktam ca asmābhiḥ karmanibandhe ā

makhyādirahitam karma kathyate tatsamāsataḥ |
cakrārdhāṁśakasasūhāt viśodhyāḥ ye bhujāṁśakāḥ ||
taccheśaguṇitāḥ dviṣṭhāḥ śodhyāḥ khakheśukhābdhitāḥ |
śeṣasya caturthāṁśena dviṣṭham antyaphalāhatam ||
bāhukoṭyoḥ phalam kṛtsnam kramotkramaguṇasya vā |
[mahābhāskarīyam, 7.17-19]
iti daśamam gītikāsūtram || 11 ||

[caturviṁśatijyārdhāni]

atra aśeṣagrahakarma, tat ca jyāpratibandham iti ataḥ jyādarśanārtham āha ā

makhi bhakhi phakhi dhakhi ḡakhi ḡakhi
ṅakhi hasjha skaki kiṣga śghaki kighva |

ghlaki kigra hakya dhaki kica
sga jhaśa ḥva kla pta pha cha kalārdhajyāḥ || 12 ||

"makhi"ādayaḥ nigadena eva vyākhyātāḥ | kalārdhajyāḥ | kalāḥ ca tāḥ ardhajyāḥ ca
kalārdhajyāḥ | etāḥ jyāḥ liptāpramāṇaparimitāḥ | ardhajyābhīḥ yataḥ śāstravyavahāraḥ
tena ardhajyā eva uktā || 12 ||

[daśagītikāśūtraparījñānaphalam]

daśagītikāśūtraparījñānaphalapradarśanāya āha ā

daśagītikāśūtram idam
bhūgrahacaritam bhapañjare jñātvā |
grahabhabhagaṇaparibhramanam
sa yāti bhittvā param brahma || 13 ||

atra paribhāśāgītikāḥ daśagītikāḥ grhyante | etat daśagītikāśūtram bhūgrahacaritam |
bhuvi loke | grahāṇām caritanibandhanatvāt etat eva daśagītikāśūtram grahacaritam,
grahacaritahetutvāt vā yathāsukham kṛtam iti | bhuvi grahacaritam bhūgrahacaritam | na
anyaloke grahacaritanibandhanam asti yataḥ daśagītikāśūtram tena ucyate
bhūgrahacaritam | bhapañjare jñātvā | bhapañjaraḥ golaḥ, tasmin gole tat grahacaritam
jñātvā, avagamya, grahāṇām sphuṭagateḥ pratipattihetuḥ
yataḥ golaḥ, etat grahāṇām bhānām ca paribhramanāmārgam bhittvā param brahma
yāti | yaḥ gole samagram daśagītikāśūtrapratibaddham grahacaritam jānāti sa param
brahma yāti iti || 13 ||

daśagītikāśūtrarthā vyākhyātā bhāskareṇa mandadhiyām |

pratipattaye prakāmam sarvah hi samānabhūtaye yataste ||

iti bhāskarasya kṛtau

daśagītikāsūtravyākhyā parisamāptā ||

Gaṇitapādah

[maṇgalācaraṇam]

yannāmasaṁsmaraṇamātrabhavābhavāni
śreyah 'śubhāni vibudhāsuramānavānām |
tasmai sakṛṣṇakamalodbhavamaulighṛṣṭa-
pādāravindayugalāya namah śivāya || 1 ||

ācāryāryabhaṭah tapobhiḥ amalaiḥ ārādhya padmodbhavam
yat lebhe grahacārasāraviṣayam bījam mahārtham sphuṭam |
tasya atīndriyagocarārthanipuṇaspaṣṭorusadvastunah
vyākhyānam gurupādalabdhām adhunā kiñcit mayā likhyate || 2 ||

[pratipādyavastunirdeśah]

atha ācāryāryabhaṭamukhāravindavinissṛtam padārthatrayam ā gaṇitam, kālakriyā,
golah iti yat etat gaṇitam tat dvividham catusu sanniviṣṭam | vṛddhiḥ hi apacayaḥ ca iti
dvividham | vṛddhiḥ samyogaḥ, apacayaḥ hrāsaḥ | etābhyām bhedābhyām
aśeṣagaṇitam vyāptam | āha ca ā

saṁyogabhedā guṇanāgatāni śuddheḥ ca bhāgaḥ gatamūlamuktam |
vyāptam samīkṣya upacayakṣayābhyām vidyāt idam dvyātmakam eva śāstram ||

saṁyogasya vṛddheḥ, bhedāḥ guṇanāgatāni | tāni ca ā asadr̄ṣayaḥ rāsyoh abhyāsaḥ
guṇanā, yathā caturṇām pañcānām ca viṁśatih | gatam sadṛśābhyāsaḥ vargaḥ ghanāḥ
ca | dvigatam vargaḥ, yathā caturṇām caturṇām ca ṣoḍaśa | evam trigatam ghanāḥ,
yathā caturṇām caturṇām caturṇāñ ca catuṣṣaṣṭih | "śuddheḥ ca" iti atra yogārtham
cakāraḥ paṭhyate | tena śreḍhīkuṭṭākārādiṣu loke ca aniyatasvarūpavṛddhiḥ sā ca
parigṛhitā bhavati | śuddheḥ ca bhāgaḥ
gatamūlamuktam | śuddheḥ apacayasya bhedāḥ bhāgaḥ, gatānām mūlāni ca | atra api
śreḍhīkuṭṭākārādi[ṣu] loke ca aniyatasvarūpāḥ apacayaḥ cakārāt eva parigṛhyate | evam
śāstre, loke ca na saḥ asti gaṇitaprakāraḥ yaḥ ayam vṛddhyātmakah apacayātmakah vā
na bhavati |

yadi evam atra katham prakriyā parikalpanīyā? yatra caturbhāgaḥ pañcabhāgena
guṇitah jātaḥ viṁśatibhāgaḥ | iyam ca guṇanā saṁyogasya bhedāḥ ucyate | sa ca ayam
śuddheḥ bhedāḥ āpatitah | yatra caturbhāgena viṁśatibhāgasya bhāgaḥ, tatra dṛṣṭah
pañcabhāgaḥ | evam ayam śuddheḥ bhedāḥ saṁyogabhedāḥ āpatitah | ubhayatra
parigāraḥ ucyate ā [ekāyām avistāre caturaśrakṣetre viṁśatyāyātacaturaśrakṣetrāṇi |]
tatra ekasya āyāmaḥ pañcabhāgaḥ, vistāraḥ
caturbhāgaḥ | tayoḥ abhyāsaḥ phalam kṣetrasya viṁśatibhāgaḥ | viṁśatibhāgasya
caturbhāgaḥ pañcabhāgaḥ iti na doṣaḥ | evam kṣetragaṇite parihāraḥ | rāśigaṇite
parihārārtham yatnah karanīyah | aparah āha ā "gaṇitam rāśikṣetram dvidhā" | evam
karanīparikarma ā

karṇabhujayoḥ samatvam karoti yasmāt tataḥ karanī |

gaṇitam dviprakāram ā rāśigaṇitam kṣetragaṇitam | anupātakutṭākārādayah
gaṇitaviśeṣah rāśigaṇite abhihitāḥ, średhīcchāyādayah kṣetragaṇite | tat evam
rāśyāśritam kṣetrāśritam vā aśeṣam gaṇitam | yat etat karaṇīparikarma tat kṣetragaṇite
eva | yadi api anyatre karaṇīparikarma, tathā api tasya na
karṇabujākotipratipādakatvam iti na doṣah | etat ca karaṇīparikarmatvam
yatkarṇādipratipādakatvam | catusu sannivisṭam, catvāri bījāni, teṣu sannivisṭām
| uktam gaṇitam | kālakriyāgolau tatra tatra eva upadekṣyāmaḥ |
atra ācāryāryabhaṭah śāstram ārabhamāṇah cetasi iṣṭadevatāprāṇāmaḥ hi bhaktyā
prayuktah ā

brahma-ku-śaśi-budha-bhṛgu-ravi-
kuja-guru-koṇa-bhagaṇān namaskṛtya |
āryabhaṭah tu iha nigadati
kusumapure abhyarcitam jñānam || 1 ||

brahmā asya iṣṭadevatā | iṣṭadevatāprāṇāmaḥ hi bhaktyā prayuktah svābhiḥ
lāṣateṣṭakāryavighātinaḥ vighnān vinihanti | athavā
devāsuramukuṭamāṇimayūkhamālālāṅkṛtacaraṇatvāt sarvāśām devatānām
pradhānatamah brahmā, atah tasya ādau namaskriyām kṛtavān ācāryah | athavā
ācāryeṇa svāyambhuvasiddhāntasamkṣepavasturacanā prastutā,
svāyambhuvasiddhāntasya ca vidhātā bhagavān vedhāḥ, tataḥ asya yujyate
prathamam prāṇāmaḥ tam kartum
| akṣadeśāntarāyattā grahagatih, tau ca akṣadeśāntaravaviśeṣau bhūvaśāt iti tat
anantaram namaskṛtavān bhuvam | śaśyādīn upari upari avasthitān
tadgatinibandhanatvāt śāstrasya iti namaskṛtavān | brahmā ca kuḥ ca śaśī ca budhaḥ
ca bhṛguḥ ca raviḥ ca kujaḥ ca guruḥ ca koṇaḥ ca bhagaṇāḥ ca brahma-ku-śaśi-budha-

bhr̥gu-ravi-kuja-guru-koṇa-bhagaṇāḥ | atah tān brahma-ku-śaśi-budha-bhr̥gu-ravi-kuja-
guru-koṇa-bhagaṇān, namaskṛtya praṇamya iti arthaḥ | bhāni jyotiṁṣi
aśvinyādīni, teṣām gaṇaḥ bhagaṇaḥ | yat atra śaśyādīnām upari upari avasthāne
vaktavyam tat kālakriyāpāde vakṣyāmaḥ | āryabhaṭaḥ iti svasamjñābhidhānena anyāḥ
svāyambhuvasiddhāntānusāriṇyah kṛtayah santi iti etat pradarśayati | tena bahutvāt
svāyambhuvasiddhāntānusāriṇīnām kṛtīnām kena iyam kṛtiḥ kṛtā iti na jñāyate | atah
svasamjñābhidhānam | yathā "kauṭilyena kṛtam śāstram" iti [arthaśāstram, 1.1.19] | "tu"-
śabdaḥ pādapūraṇe | ["iha"-śabdaḥ] asya puram
pradarśayati | nigadati bravīti | kusumapure abhyarcitam jñānam | kusumapuram
pāṭaliputram, tatra abhyarcitam jñānam nigadati | evam anuśrūyate ā ayam kila
svāyambhuvasiddhāntaḥ kusumapuranivāsibhiḥ kṛtibhiḥ pūjitaḥ, satsu api pauliśa-
romaka-vāsiṣṭha-sauryeṣu | tena āha ā "kusumapure abhyarcitam jñānam" iti || 1 ||

[saṅkhyāsthānanirūpaṇam]

saṅkhyāsthānanirūpaṇārtham āha ā

ekam ca daśa ca śatam ca
sahasram tu ayutaniyute tathā prayutam |
kotyārbudam ca vṛṇdam
sthānāt sthānam daśaguṇam syāt || 2 ||

laghvartham saṅkhyāsthānāni prakramyante | anyathā hi saṅkhyāsthāna
nirūpaṇābhāvāt guruḥ gaṇitavidhiḥ syāt | katham? rūpabahutvasthāpanāyām rūpāṇi
bahūni sthāpayitavyāni bhavanti | satyām punaḥ sthānakalpanāyām yat rūpaiḥ
bahubhiḥ nirvartyam karma tat ekena eva nirvartayitum śakyate |

ekam ca daśa ca śatam ca sahasram | eteśām ekadaśaśatasahasrāṇām
prathamadvitīyatṛtīyacaturthāni sthānāni | tu pādapūraṇe | ayutaniyute ayutam ca
niyutam ca ayutaniyute | ayutasya pañcamam sthānam | daśasahasrāṇi ayutam |
niyutasya ṣaṣṭham sthānam | niyutam lakṣaḥ | tathā tena eva prakāreṇa prayutasya
saptamam sthānam | daśalakṣaḥ prayutam | koṭiḥ, koṭyāḥ aṣṭamam sthānam | lakṣaḥ
śatam, koṭiḥ | arbudam, arbudasya navamam sthānam | daśakotyāḥ
arbudam | vṛṇdam, vṛṇdasya daśamam sthānam | koṭiśatam vṛṇdam |

sthānāt sthānam daśagūṇam syāt | sthānāt sthānam anyat daśagūṇam
svaparikalpitasthānāt uttaram sthānam daśagūṇam bhavati iti yāvat | kim artham idam
ucyate | nanu ca etāni sthānāni anantarāpekṣayā daśagūṇāni eva | yadi ebhyāḥ
anyasthānaparigrahārtham vacanam tathā sati sthānābhidhānam anarthakam | kutah?
sthānāt sthānam daśagūṇam syāt iti anena eva abhihitā, abhihitasthānaparigrahasya
siddhatvāt | na eṣaḥ doṣaḥ | sthānāt sthānam daśagūṇam
syāt iti etat lakṣaṇam | ekādīni sthānāni asya lakṣaṇasya udāhṛtāni | na etat asti | na hi
sūtrakārāḥ samkṣepavivakṣavaḥ lakṣaṇam udāharaṇam brūyuh | na evam vijñāyate |
yadā lakṣaṇam udāharaṇam ca nirarthakam tarhi ekādīvṛṇdānatāyāḥ saṅkhyāyāḥ
samjñāḥ nirūpyante | sthānāt sthānam daśagūṇam iti ekādisamkhyāyāḥ
sthānanirūpaṇamātram eva upadiṣyate, upayogābhāvāt na saṅkhyāsamjñā |

atra etat praṣṭavyam ā kā eṣām sthānānām śaktiḥ, yat ekam rūpam daśa śatam
sahasram ca bhavati | satyām ca etasyām sthānaśaktau krāyakāḥ
viśeṣeṣṭakrayyabhojanāḥ syuḥ | krayyam ca vivakṣataḥ alpam bahu ca syāt | evam ca
sati lokavyavahārān yathābhāvaprasaṅgah | na eṣaḥ doṣaḥ | sthāne vyavasthitāni
rtūpāṇi daśādīni kṛtāni | kim tarhi taiḥ? tāni pratipādyante lekhāgamanyāyena | athavā
laghvartham sthānāni prakramyante iti uktam asmābhiḥ |
nyāsaḥ ca sthānānām ā

0 0 0 0 0 0 0 0 0

|| 2 ||

[vargaparikarma]

vargaparikarmapradarśanāya āryāpūrvārdham āha ā

vargaḥ samacaturaśraḥ phalam ca sadṛśadvayasya saṃvargaḥ |

vargaḥ karaṇī kṛtiḥ vargaṇāḥ yāvakaraṇam iti paryāyāḥ | samāścatasraḥ aśrayaḥ yasya
saḥ ayam [sama]caturaśraḥ kṣetraviśeṣaḥ, sa vargaḥ | samacaturaśrakṣetraviśeṣaḥ
saṃjñī, vargaḥ saṃjñā | atra saṃjñisamjñayoh abhedenā upacāreṇa ucyate "vargaḥ
samacaturaśraḥ" iti | yathā "māṃsapiṇḍaḥ devadattāḥ" iti | anyathā atra yāvān
samacaturaśrakṣetraviśeṣaḥ tasya sarvasya anītasya api vargasamjñāprasaṅgaḥ | kva
anyatra anītasya samacaturaśrakṣetraviśeṣasya
vargasamjñāprasaṅgaḥ? ucyate ā asamakarṇasya

parilekhau 1 & 2

samacaturaśrakṣetraviśeṣasya asya (parilekhaḥ 1) | dvisamatryaśrakṣetrasya
samunnatavadavasthitasya asya (parilekhaḥ 2) |

vargasamjñāprasaṅge kah doṣaḥ? ucyate ā "phalam ca sadṛśadvayasya saṃvargaḥ" iti
sadṛśadvayasya saṃvargaḥ phalam prāpnoti, na ca iṣyate evam | kva tarhi?
karṇagrahaṇam kartavyam; vargaḥ samakarṇasamacaturaśrakṣetraviśeṣaḥ iti | athavā
tulyasaṅkhyābhyām karṇābhyām upalakṣitasya eva samacaturaśrakṣetraviśeṣasya

vargasamjñā jijñāsyate | kutah? na anisṭārthatvāt śastrapravṛtteḥ | athavā na eva loke
evam ākāraviśiṣṭasya samacaturaśrakṣetrasya samacaturaśrasamjñā
susiddhā | āyatacaturaśrakṣetrādiṣu vargakarmaṇah astitvāt teṣām
asamacaturaśrāṇām api vargasamjñāprasaṅgah | na eṣah doṣah | teṣu api yaḥ vargah
sa samacaturaśrakṣetraphalam | tat yathā ā samacaturaśrakṣetram ālikhya aṣṭadhā
vibhajya trikacatuśkavistārāyāmāni catvāri āyatacaturaśrakṣetrāṇi pañcakarṇāni
parikalpayet | tatra evam parikalpitacaturaśrāyatacaturaśrakṣetrakarṇabāhukam
samacaturaśram kṣetram madhye avatiṣṭhate | yaḥ tatra
āyatacaturaśrakṣetrakarṇāyatavargah, sa ca antaḥsamacaturaśrakṣetre phalam |
tribhuje api etat eva darśanam, ardhāyatacaturaśratvāt tribhujasya |
durvidagdhparyāyanāya ca kṣetram ālikhyate ā

parilekhaḥ 3

asmād yaḥ yaḥ vargah samacaturaśrakṣetraviśeṣah | evam phalam ca sadṛśadvayasya
samvargah | samvargah iti asya samacaturaśrasya kṣetraphalam nirucyate | sadṛśasya
dvayam sadṛśadvayam | athavā sadṛśadvayam ca taddvayam ca samasadṛśadvayam |
sadṛśadvayasya samvargah | samvargah ghātah guṇanā hatiruddhartanā iti paryāyāḥ |
sadṛśadvayasamvargah phalam tasya samacaturaśrasya | sadṛśadvayasamvargah iti
atra iṣṭabāhuvacanam kartavyam | anyathā hi
yayoḥ kayościt sadṛśayoḥ samvargah phalam prāpnoti | na etat asti | nahi phalārthī
anyakṣetram uddiṣya anyayoḥ abhyāsam karoti | na hi odanārthī pāṁsūn ādatte |

uddeśakah ā

ekādinavāntānām vargah ye tān pṛthak pṛthak brūhi |
śatapādasya ca vargam śatasya tena eva yuktasya || 1 ||

nyāsaḥ ā 1, 2, 3, 4, 5, 6, 7, 8, 9; śatapādaḥ 25, śatam anena yuktam 125 |

yathāsaṅkhyena ekādinavāntānām phalam ca "sadrśadvayasya saṃvargah" iti labdhāḥ vargāḥ, nyāsaḥ ā 1, 4, 9, 16, 25, 36, 49, 64, 81 |

evam eṣām lakṣaṇāni sūtrāṇi ā

antyapadasya ca vargam kṛtvā dviguṇam tat eva ca antyapadam |
śeṣapadaiḥ āhanyāt utsārya utsārya vargavidhau ||
iti, taiḥ ekādinavāntānām rūpāṇām vargasāṅkhyā vaktavyā | kutah? ajñātāyām
vargasāṅkhyāyām yataḥ antyapadasya vargasāṅkhyā na śakyate nyastum | asmākam
punah sarvam lakṣaṇena eva saṃgrhītam |

śatapādasya vargaḥ 625; śatasya tena eva yuktasya 15625 |

bhinnavargah api evam eva | kintu sadṛśīkṛtayoh chedāṁśarāśyoh pr̥thak pr̥thak
vargam kṛtvā chedarāśivargeṇa amśarāśivargasya bhāgalabdhām bhinnavargah |

uddeśakah ā

saṇṇām sacaturthānām rūpasya ca pañcabhāgasahitasya |
rūpadvitayasya ca me brūhi kṛtim navamahīnasya || 2 ||

nyāsaḥ ā 6 1 2

1 1 1

4 5 9ī

karaṇam ā "chedaguṇam sāṁśam" iti

25

4 |

etayoḥ chedāṁśayoḥ rāsyoḥ pṛthak pṛthak vargarāśī 16, 625. chedarāśivargeṇa
amśarāśivargam hṛtvā labdham

39

1

16 |

evam śeṣayoḥ api yathāsaṅkhyena

1 3

11 46

25 81 || 2 ||

[ghanaparikarma]

ghanaparikarmapradarśanāya āryāparārdham āha ā

sadr̄śatrayasamvargah ghanah tathā dvādaśāśritah syāt || 3 ||

[sadṛśatrayasya samvargah] sadṛśatrayasamvargah | sadṛśatrayasamvargah ghanah
bhavati | ghanah vṛṇdam sadṛśatrayābhyaśah iti paryāyāḥ | sa ca dvādaśāśritah |
dvādaśa aśrayah yasya sa ayam dvādaśāśritah, syāt bhavet | "tathā"śabdena
samacaturaśratāṁ ghanasya pratipādayati | na etat asti | antareṇa api "tathā"śabdām
asya ghanasya samacaturaśratā śakyate eva pratipattum | kutaḥ ?
sadṛśatrayasamvargah iti anena samacaturaśrakṣetraphalasya tatkṣetrapravāhūsaḍr̄śam
eva ucchrāyam ācaṣṭe, yasmāt kṣetraphalam ucchrāyagunītam ghanaphalam | athavā
"vargah samacaturaśrah" iti atra adhikṛtam samacaturaśragrahaṇam anuvartate,

aśrayah yasya mṛdā anyena vā pradarśayitavyāḥ |

uddeśakah ā

ekādinavāntānām rūpāṇām me ghanam pṛthak brūhi |
aṣṭāṣṭākavargaghanam śatapādakṛteḥ kṛteḥ ca api || 3 ||

nyāsaḥ ā 1, 2, 3, 4, 5, 6, 7, 8, 9; aṣṭāṣṭākavargaḥ 4096; śatapādakṛteḥ kṛtiḥ 390625 |

ekādinavāntānām "sadṛśatrayasamvargaḥ ghanah" iti yathāsaṅkhyena labdhāḥ ghanāḥ
1, 8, 27, 64, 125, 216, 343, 512, 729 |

atra api yeśām "antyapadasya ghanam syāt" ityādi lakṣaṇasūtram, teśām ekādīnām
ghanasaṅkhyā vaktavyā | kutaḥ ? anirjñātāyām ghanasaṅkhyāyām yataḥ hi
antyapadasya ghanasaṅkhyā nyastum na śakyate | aṣṭāṣṭākavargasya [ghanah]
68719476736, śatapādasya kṛteḥ kṛteḥ api 59604644775390625 |

bhinnaghanaḥ api evam eva | uddeśakah ā

śaṭpañcadaśāṣṭānām tāvat bhāgaiḥ vihīnagaṇitānām |
ghanasaṅkhyām vada viśadam yadi ghanagaṇite mativiśadā || 4 ||

nyāsaḥ ā 5 4 9 7

5 4 9 7

6 5 10 8

labdhāḥ yathāsaṅkhyena ghanāḥ ā

198 110 970 488

107 74 299 191

216 125 1000 512

[vargamūlam]

vargamūlānayanāya āha ā

bhāgam haret avargāt nityam dviguṇena vargamūlena |
vargāt varge śuddhe labdham sthānāntare mūlam || 4 ||

bhāgaḥ hṛtiḥ bhajanam apavartanam iti paryāyāḥ | tam bhāgam, haret gṛhṇīyāt | kasmāt
sthānāt prabhṛti iti āha ā avargāt, na vargaḥ avargaḥ, tasmāt avargāt | atra gaṇite
viṣamam sthānam vargaḥ | tasya eva nañā viṣamatve pratiṣiddhe avargaḥ iti samam
sthānam, yataḥ hi viṣamam samam ca sthānam | kena bhāgam haret iti āha ā nityam
dviguṇena vargamūlena | dvau gunaḥ yasya tat dviguṇam | kim tat ? vargamūlam | tena
dviguṇena vargamūlena | katham

punar tat vargamūlam labhyate iti āha ā vargāt varge śuddhe labdham sthānāntare
mūlam | vargāt viṣamasthānāt, śuddhe varge vargaganite iti arthāḥ, yat atra labdham tat
sthānāntare mūlasamjñam bhavati | sthānāt anyasthānam sthānāntaram, tasmin
sthānāntare tasya labdhasya mūlasamjñā | yatra punaḥ sthānāntaram eva na vidyate,
tatra tasya tatra eva mūlasamjñā | kutah ? sthānāntarasya asambhavāt | etat eva
sūtram punar punar āvartaye yāvat parisamāptam gaṇitakarma
iti |

uddeśakah ā

ekādīnām mūlam vargāṇām pūrvadrṣṭasaṅkhyānām |
icchāmi sakhe jñātum śarayamarasavargarāśeh ca || 1 ||

nyāsaḥ ā 1, 4, 9, 16, 25, 36, 49, 64, 81, 625 |

pr̥thak pr̥thak yathāsaṅkhyena vargamūlāni labdhāni ā 1, 2, 3, 4, 5, 6, 7, 8, 9, 25 |

bhinnamūlānayane uddeśakah ā

śaṇṇām sacaturthānām trayodaśānām [sa]curnavāṁśānām |
vigaṇayya vargamūle vada bhaṭasaṅkhyānusāreṇa || 2 ||

nyāsaḥ ā 6 13

1 4

4 9

karaṇam ā chedoparirāśyoh abhyāsam kṛtvā amśam prakṣipet | jātam
25 | 121

4 | 9 |

etayoh amśacchedarāśyoh pr̥thak pr̥thak mūle

5 | 11

2 | 3 |

chedarāśimūlena amśarāśimūlasya bhāgalabdham bhinnavargamūlam

2

1

2 ,

trayodaśānām sacaturnavāṁśānām ca bhinnavargamūlam

3

2

3 || 4 ||

[ghanamūlam]

ghanamūlānayanāya āha ā

aghanāt bhajet dvitīyāt

triguṇena ghanasya mūlavargeṇa |

vargaḥ tripūrvagunītaḥ

śodhyaḥ prathamāt ghanāḥ ca ghanāt || 5 ||

na ghanāḥ aghanāḥ, tasmāt aghanāt | [bhajet] bhāgam haret, bhāgam gṛhṇīyāt iti
arthāḥ | aghanasthānasya anekatvāt āha ā dvitīyāt | atra gaṇīte ghanāḥ ekaḥ, dvau
aghanau | kutaḥ etat ghanāḥ ekaḥ dvau aghanau iti ucyate ā "vargaḥ tripūrvagunītaḥ
śodhyaḥ prathamāt aghanāt" iti prathamāghanasiddhiḥ, "aghanāt bhajet dvitīyāt" iti
dvitīyāghanasiddhiḥ | ghanāḥ punar ekaḥ eva, dvitīyasya aśravaṇāt | aghanāt dvitīyāt
prabhṛti kena bhāgam haret iti āha ā triguṇena

ghanasya mūlavargeṇa | trayāḥ gunāḥ asya triguṇāḥ | kah? ghanasya mūlavargah |
tena triguṇena ghanasya mūlavargeṇa | vargaḥ tripūrvagunītaḥ śodhyaḥ prathamāt |
vargaḥ tribhīḥ pūrveṇa ca rāśinā gunītaḥ tripūrvagunītaḥ | kasya vargaḥ ? labdhasya iti
vākyāśeṣaḥ | śodhyaḥ | śodhayitavyaḥ | prathamāt aghanāt iti sambandhanīyam |
ghanāḥ ca ghanāt | ghanāḥ ca śodhayitavyaḥ | kutaḥ ? ghanāt | ghanasthānāt | tataḥ
ghanamūlam bhavati iti adhyāhāryam | atra idam eva

ghanarāśim drṣṭvā ghanah ekaḥ dvau aghanau iti vigaṇayya yatra ghanah tasmāt
ghanamūlam pūrvam eva kuryāt, ghanah ca ghanāt śodhyah iti anena | tataḥ sarvam
idam āryāsūtram upasthitam bhavati, "aghanāt bhajet dvitīyāt" ityādi |

uddeśakah ā

ekādīnām mūlam ghanarāśīnām pṛthak tu me brūhi |
vasvaśvīmūnīndūnām ghanamūlam gaṇyatām āśu || 1 ||

nyāsaḥ ā 1, 8, 27, 64, 125, 216, 343, 512, 729, 9728.

labdham ghanamūlam yathāsaṅkhyena 1, 2, 3, 4, 5, 6, 7, 8, 9, 12.

uddeśakah ā

kṛtayamavasurandhrarasābdhirūparandhrāśvināgasaṅkhyasya |
mūlam ghanasya samyak vada bhaṭāśāstrānusāreṇa || 2 ||

nyāsaḥ ā 8291469824 | labdham ghanamūlam 2024 |

evam eva bhinnaghanamūlānayane api uddeśakah ā

mūlam trayodaśānām pañcaghanāṁśaiḥ triśūnyarūpākhyaiḥ |
adhikānām bhinnākhyam vigaṇyatām saṅkhyayā samyak || 3 ||

nyāsaḥ ā

13

103

125 |

labdham ghanamūlam

2

2

5 || 5 ||

[tribhujakṣetraphalam]

atha tribhujakṣetraphalānayanārtham āha ā

tribhujasya phalaśarīram samadalakoṭībhujārdhasamvargah |

tisrah bhujāḥ yasya kṣetrasya tat idam kṣetram tribhujam | bhujā bāhuḥ pārvam iti
paryāyāḥ | tatra trīṇi kṣetrāṇi sama-dvisama-viśamāṇi | "tribhujasya" iti
tribhujakṣetrajātimaṅgīkṛtya ekavacananirdeśah | tasya tribhujasya | phalaśarīram |
phalasya śarīram phalaśarīram, phalapramāṇam iti arthaḥ |
samadalakoṭībhujārdhasamvargah | samadalakoṭī, avalambakah | atra kecit ā same
dale yasyāḥ sā iyam samadalā, samadalā ca asau koṭī ca samadalakoṭī iti varṇayanti
| teśām sama-dvisamatraśrakṣetrayoh eva phalasiddhiḥ, na viśamatraśrakṣetrasya |
asmākam punar samadalakoṭī iti anena avalambakavyutpattyā bruvatām trayāṇām api
phalānayanam siddham | athavā ye vyutpattim kurvanti teśām api trayāṇām
tryaśrakṣetrāṇām phalānayanam siddham eva | kutah ? "rūḍheṣu kriyā
vyutpattikarmārthā na arthakriyā" iti | bhujāyāḥ ardham bhujārdham | atha atra
bhujāśabdena bhujā bāhuḥ pārvam iti sāmānyena trayāṇām pārvānām
pratipattau prasaktāyām viśiṣṭā eva bhujā parigṛhyate, bhujāśamjñitā |
"sāmānyacodanāḥ ca višeṣe avatiṣṭhante" iti | atra gaṇite bhujāśabdaḥ auṇādikah
pratipattavyah, anyathā hi "bhujānyubjau pāṇyupatāpayoh" [aṣṭādhyāyī, 7.3.61] iti

bhujāśabdasya pāṇāvarthe nipātitattvāt kṣetrapārśve na labhyate | tasyāḥ bhujāyāḥ
ardham bhujārdham | samadalakotyā bhujārdhasya ca samvargah
samadalakoṭibhujārdhasamvargah, tribhujasya phalaśarīram bhavati |

uddeśakah ā

saptāṣṭanavabhujānām kṣetrāṇām yat phalam samānām tu |
pañcaśravaṇasya sakhe ṣaḍbhūsaṅkhyadvitulyasya || 1 ||

nyāsaḥ ā

parilekhaḥ 4

etāni trīṇi samāni |
dvisamasya api nyāsaḥ ā

parilekhaḥ 5

karaṇam ā "samatryaśrikṣetre samā eva avalambakasthitih" iti bhūmyardham ābādhā

3

1

2 |

"yah ca eva bhujāvargah koṭivargah ca karṇavargah saḥ" [gaṇitaī, 17] iti bhujākotyoh
vargau karṇavargah | tena, bhujāvarge karṇavargāt śuddhe śeṣam samadalakoṭivargah

36

3

4,

samadalakoṭī karaṇyah

36

3

4

iti | bhujārdham api karaṇyah

12

1

4 |

tena, karaṇyoḥ saṃvargaḥ asti iti labdham kṣetraphalam

"samadalakoṭībhujārdhasaṃvargaḥ" iti karaṇyah

450

3

16 |

śeṣayoḥ api samayoḥ evam eva yathāsaṅkhyena phalam [karaṇyah 768], karaṇyah

1230

3

16 |

dviṣamatryāśrīkṣetrasya api "saṃā eva avalambakasthitih" iti ābādhā 3, samadalakoṭī pūrvakaraṇena eva 4, phalam api tena eva karaṇena 12 |

uddeśakah ā

karṇau dvau daśa nirdiṣṭau dhātrī [ca] tasya ṣodaśa proktā |

dviṣamasya tasya vācyam phalasaṅkhyānam prayatnena || 2 ||

nyāsaḥ ā

parilekhaḥ 6

labdham pūrvakaraṇena phalam 48 |

viṣamatribhujakṣetreṣu uddeśakah ā

karṇah trayodaśa syāt pañcadaśānyah mahī dvisaptā eva |
viṣamatribhujasya sakhe phalasaṅkhyā kā bhavet asya || 3 ||

nyāsaḥ ā

parilekhaḥ 7

karaṇam ā bhujayoh vargaviśeṣah tayoḥ vā samāsaviśeṣābhyaśah tribhujakṣetre
ābādhāntarasamāsaviśeṣābhyaśah bhavati | bhūmyā ābādhāntarasamāsapramāṇayā
vibhajya labdham bhūmau eva saṃkramaṇam | "antarayuktam hīnam dalitam" iti
[gaṇitaī, 24] | anena krameṇa ābādhāntarapramāṇe labhyete | tābhyaṁ
ābādhāntarapramāṇābhyaṁ viṣamatribhujasya samadalakoṭyānayanam | tat yathā ā
bhujayoh vargarāśī 169, 225 | etayoh viśeṣah 56 | bhujayoh
ekībhāvah 28, tayoḥ viśeṣah 2 | tayoḥ abhyāsaḥ iti [bhujayoh vargaviśeṣah]
ābādhāntarasamāsapramāṇayā bhūmyā 14, anayā hṛte labdham 4, anena bhuvā saha
saṃkramaṇam "antarayuktam hīnam" iti 18, 10 | dalam iti yathākrameṇa ābādhāntare 1,
5 | etābhyaṁ tribhujakṣetrasya avalambakānayanam ā pañcadaśakena karṇena
navapramāṇena ca ābādhāntareṇa labdhā samadalakoṭī 12; trayodaśapramāṇena
karṇena pañcapramāṇena ca ābādhāntareṇa labdhā sā eva samadalakoṭī
12 | phalam "samadalakoṭībhujārdhasaṃvargah" iti bhujā bhūmiḥ, tasyāḥ ardham 7,

samadalakoṭībhujārdhasaṁvargah iti phalam āgatam 84 |

uddeśakah ā

pañcāśat sā ekā bhūḥ trimśat saptādhikā bhavet karṇah |
vimśatih anyah proktah viśamatribhujasya kim phalam vācyam || 4 ||

nyāsaḥ ā

parilekhaḥ 8

labdham pūrvakaraṇena ca ābādhāntare 16, 35, samadalakoṭī 12, phalam 206 |

[śadaśrīghanaphalam]

ghanaphalānayanārtham asya eva tribhujakṣetrasya āryāpaścārdham āha ā

ūrdhvabhujātatsaṁvargārdham sa ghanah śadaśriḥ iti || 6 ||

ūrdhvabhujā kṣetramadhyah ucchrāyah, tat iti kṣetraphalam, ūrdhvabhujāyāḥ tasya ca
saṁvargah ūrdhvabhujātatsaṁvargah, tasya ardham ūrdhvabhujātatsaṁvargārdham |
sa ghanah ghanaphalam iti yāvat, sa ca śadaśriḥ | śadaśrayah yasya saḥ śadaśriḥ
ghanah | atha nirjñāte ūrdhvabhujāpramāṇe ghanaphalam
ūrdhvabhujātatsaṁvargārdham iti śakyate vaktum, na ca anirjñāte | satyam eva etat |
kintu atra nirjñātam eva ūrdhvabhujāpramāṇam | kutah ? śāstre
tadānayanopāyapradarśanāt | tat yathā ā ūrdhvabhujā hi nāma kṣetramadhyah
ucchrāyah iti pratyakṣam | sa ca tiryagavasthitasya śṛṅgāṭakakṣetrabāhoh

karṇavadavasthitasya koṭiḥ, bhujākarṇamūlakṣetrakendrāntarālam | tadānayane
trairāśikam ā yadi tribhujakṣetrāvalambakena tribhujakṣetrabāhuḥ labhyate tadā tasya
eva tribhujakṣetrabāhudalasañkhyakasya avalambakasya kiyān bāhuḥ iti | etat
karṇabhujākoṭitrairāśikavidhānam pradeśāntaraprasiddham eva iti na
atra abhihitam | sa ca pradeśaḥ "yah ca eva bhujāvargaḥ koṭivargaḥ ca karṇavargaḥ
sah" [gaṇitaí, 17] iti, "trairāśikaphalarāśim tam atha icchārāśinā hatam" [gaṇitaí, 26] iti
ca |

uddeśakah ā

śrīṅgāṭakaghanaganītam dvādaśaganītāśritasya yat ca asya |
ūrdhvabhujāparimāṇam sphuṭataram ācākṣva me śīghram || 1 ||

nyāsaḥ ā

parilekhaḥ 9

karaṇam ā yadi aṣṭottaraśatakaraṇīkena [avalambakena]
catuścatvārimśaduttaraśatakaraṇīkah karnaḥ labhyate, tadā ṣaṭtrimśatkaraṇīkena
avalambakena kiyān karnaḥ iti | trairāśikopapattipradarśanārtham kṣetranayāsaḥ ā

parilekhaḥ 10

trairāśikanyāsaḥ ca 108, 144, 36 | [etāḥ karāṇyāḥ]

labdhaḥ antaḥkarnaḥ [karāṇyāḥ] 48 | ayam eva karnaḥ ūrdhvam
avasthitatribhuja[kṣetrasya bhujā] | karṇakṛteḥ bhujāvargaviśeṣaḥ ūrdhvabhujāvargah |

sa ca 16 | tatra ūrdhvabhujā sūtrakaiḥ śalākādibhiḥ vā pradarśayitavyā | kṣetraphalam [karaṇyah] 3888. etāsām kṣetraphalakaraṇīnām ūrdhvabhujākaraṇīnām ca samvargārdham ghanaḥ bhavati | ardham iti atra karaṇītvāt dvayoh karaṇībhiḥ caturbhiḥ bhāgaḥ hriyate | labdham ghanaphalam karaṇyah 93312 |

uddeśakah ā

aṣṭādaśa karṇānām saṅkhyā śrīgāṭakasya nirdiṣṭā |
ūrdhvabhujāgaṇītāgram jījñāsuḥ aham sakhe tasya || 2 ||

nyāsaḥ ā

parilekhaḥ 11

ūrdhvabhujā pūrvakaraṇena eva karaṇyah 216 | phalam api pūrvavat eva labdham karaṇyah 1062882 || 6 ||

[vṛttakṣetraphalam]

atha vṛttakṣetraphalānayanārtham āha ā

samapariṇāhasya ardham viṣkambhārdhahatam eva vṛttaphalam |

pariṇāhaḥ paridhiḥ | samah ca asau pariṇāhaḥ ca samapariṇāhaḥ, tasya ardham | anye punar anyathā vigraham kurvanti ā samah pariṇāhaḥ yasya kṣetrasya tat samapariṇāham, tasya ardham iti | teṣām kṣetraphalārdhasya grahaṇam prāpnoti, anya-pādārthena samapariṇāhaśabdena kṣetrābhidhānāt | viṣkambhaḥ vyāsaḥ, tasya

ardham viṣkambhārdham, tena hatam viṣkambhārdhahatam, viṣkambhārdhagunītam iti
yāvat | evakārakaraṇam āryāpūraṇārtham pratipattavyam
| athavā evakārakaraṇena upāyaniyamah kriyate | samapariṇāhasya ardham
viṣkambhārdhahatam eva vṛttaphalam, na anyat upāyāntaram iti | na, etat asti,
upāyāntaraśravaṇāt anyatra "vyāsārdhakṛtiḥ trisaṅguṇā gaṇitam" iti | na etat
upāyāntaram sūkṣmam, kintu vyāvahārikam iti | tasmāt ekam eva upāyāntaram,
sūkṣmagaṇitānayanasya na anyat iti |

uddeśakah ā

aṣṭadvādaśaṣaṭkāḥ viṣkambhāḥ tattvataḥ mayā dṛṣṭāḥ |
teṣām samavṛttānām paridhiphalam me pṛthak brūhi || 1 ||

nyāsaḥ ā 8, 12, 6

parilekhaḥ 12

eteṣām traīrāśikena vakṣyamāṇaviṣkambhaparidhipramāṇaphalābhyaṁ [gaṇitaī, 10]
labdhāḥ paridhayah yathākrameṇā ā

25 37 18

83 437 531

625 625 625

phalānayane karaṇam ā samapariṇāhasya ardham iti viṣkambhārdham jātam 4 | anena
eva tatsamapariṇāhasya ardham

12

354

625

guṇitam vṛttaphalam jātam

50

166

625

anena eva karaṇena śeṣayoh paridhyoh yathāsaṅkhyena phale ā

113 28

61 343

625 1250

[golaghanaphalam]

ghanaphalapradarśanārtham āha ā

tat nijamūlena hatam ghanagolaphalam niravaśeṣam || 7 ||

tat iti anena pūrvārdhaganitaniśpannam vṛttakṣetrasya tatphalam parigrhyate |
nijamūlam ātmahā mūlam | yat kṣetraphalam tat svakīyena mūlena guṇitam iti yāvat |
athavā tat kṣetraphalam, nijam avitatham āmnāyāviruddham iti arthah, mūlena hatam,
anyasya aśrutatvāt svena mūlena tatkṣetraphalam guṇitam | nijamūlena hatam
nijamūlahatam iti vigrahah | tat punar kṣetraphalam mūlakriyamāṇam karaṇitvam
pratipadyate, yasmāt karaṇīnām mūla[m apekṣitam]
| tataḥ punar api karaṇīnām akaraṇībhiḥ samvargah na asti iti kṣetraphalam karaṇyate |
evam ayam arthah arthāt avasīyate kṣetraphalavargah kṣetraphalena guṇitah iti |
ghanaḥ ca asau golaḥ ca ghanagolaḥ, golaḥ vṛttam, ghanagolasya phalam
ghanagolaphalam | niravaśeṣam | na kiñcit anena karmanā śiṣyate | yena anyena
karmanā ghanagolaphalam ānayanti na tena ghanagolaphalam niravaśeṣam bhavati,
vyāvahārikatvāt tasya karmaṇah ā
vyāsārdhaghanam bhītvā navaguṇitam ayoguḍasya ghanaganitam |

iti |

uddeśakah̄ ā

dvau pañca tathā pañktih̄ vyāsāh̄ jñeyāh̄ krameṇa vṛttānām |
ghanagolaphalāni eśām jijñāsuḥ aham samāsena || 1 ||

nyāsaḥ̄ ā

parilekhaḥ̄ 13

eśām paridhayaḥ̄ traīrāśikena eva labdhāḥ̄ yathāsaṅkhyena ā

6 15 31

177 177 52

625 250 125

karaṇam ā pūrvābhihitaganitakarmanā [dvī]viśkambhakṣetrasya yat phalam āyātam

3

177

1250 tasya mūlam etat eva karaṇīgatam aśuddhakṛtitvāt pratipattavyam | tat ca
savarnītam jātam

3927

1250. etat kṣetraphalavargeṇa gunītam jātam ghanaphalam karaṇyah̄ 31, karaṇībhāgāḥ
ca

12683983

1953125000 |

evam śeṣayoh̄ api yathāsaṅkhyena ghanaphalakaranyah̄ karaṇībhāgāḥ ca ā

7569484476

7558983 58983

8000000 125000

[samalambacaturbhujaphalam]

dvi[sama-viṣama]caturaśrādīnām antaḥkarṇayoh̄ ca atra

sampātpramāṇaphalaparijñānāya āryām āha ā

āyāmaguṇe pārśve tadyogahṛte svapātelekhe te |

vistarayogārdhaguṇe jñeyam kṣetraphalam āyāme || 8 ||

āyāmaḥ vistāraḥ dairghyam iti paryāyāḥ | āyāmaḥ guṇaḥ yayoḥ te āyāmaguṇe | ke te ?
pārśve | bhūḥ ekam pārśvam mukham itaram | āyāmaguṇe bhūvadane iti arthaḥ | tayoḥ
yogaḥ tadyogaḥ | kayoḥ ? pārśvayoḥ | tadyogahṛte | ke ? āyāmaghne pārśve | svasya
pātah svapātah, svapātayoḥ lekhe svapātalekhe | dve api pṛthak pṛthak labdhe iti
vākyāśeṣah | svapātalekhā nāma antaḥkarṇayoh̄ sampātasya bhūmukhamadhyasya ca
antarālam | vistaraḥ kṣetrasya pṛthutvam

| yadi evam vistāraḥ iti prāpnoti "prathane vākyāśabde" [aṣṭādhyāyī, 3.3.33] iti ghaṇī kṛte
| ne eṣaḥ doṣaḥ | ayam avastre staraśabdaḥ, tena viśabdena samāsāntaḥ asau
"vividhastaraḥ vistaraḥ" iti | vistarayoḥ yogaḥ vistarayogaḥ, bhūvadanayogaḥ iti arthaḥ |
vistarayogasya ardhām vistarayogārdham, vistarayogārdham guṇaḥ yasya sa
vistarayogārdhaguṇaḥ | kaḥ ? āyāmaḥ | tasmin vistarayogārdhaguṇe āyāme
kṣetraphalam jñeyam | vistarayogārdhaguṇaḥ āyāmaḥ kṣetraphalam
iti yāvat | samyak anādiṣṭena ālikhite kṣetre svapātalekhāpramāṇam traīrāśikaganītena
pratipādayitavyam | tathā traīrāśikena eva ubhayapārśve

karṇāvalambakasampātānayanam | pūrvasūtreṇa atra
dvisamavisaṁatryaśrakṣetraphalam darśayitavyam | vaksyamāṇasūtreṇa
antarāyatacaturaśrakṣetraphalānayanam anena vā anyeṣu api kṣetreṣu yāni teṣām
antarvartīni kṣetrāṇī teṣām karṇāvalambakādisādhanam tat upadiṣṭalakṣaṇena eva | na
ca teṣām anyatra avasthānamātrāt
eva anyat karaṇam syāt |

uddeśakah ā

bhūmiḥ caturdaśa syāt vadanam catvāri ca eva rūpāṇi |
karṇau trayodaśāgrau sampātāgram phalam ca vada || 1 ||

nyāsaḥ ā

parilekhaḥ 14

karaṇam ā mukhabhūmiviśeṣārdham bhujā [5] | tayā bhujayā pṛthaguktaganītena eva
avalambakasiddhiḥ, sa ca 12 | ayam eva avalambakah āyāmaḥ | pṛthak pṛthak pārśve
anena gunite jāte 48, 168. pārśvayoh yogah 18. anena bhāgalabdhe svapātalekha

29

21

33 vistarayogārdhaḥ 1. anena āyāmaḥ gunītaḥ kṣetraphalam 108 |

uddeśakah ā

vimśatiḥ ekābhyadhikā pañktih nava ca eva kīrtitā saṅkhyā |

dhātrīkarnamukhānām gaṇitam sampātalekham ācakṣva || 2 ||

nyāsaḥ ā

parilekhaḥ 15

svapātalekhe pūrvakaraṇena

2 5

2 3

5 5 |

kṣetraphalam 120 |

uddeśakah ā

trimśat tryadhikā bhūmiḥ saptadaśa anyāni kīrtitāni atra |

gaṇitam tatra kiyat syāt svapātalekhe ca ke syātām || 3 ||

nyāsaḥ ā

parilekhaḥ 16

asya trisamacaturaśrasya kṣetrasya labdhe svapātalekhe

5 9

1 9

10 10 |

kṣetraphalam 375 |

viṣamacaturaśrakṣetreṣu phalamātram eva uddiṣyate, na sampātalekhe, durjñātatvāt
avalambakasya | anyat api ca ā yat atra viṣamacaturaśram kṣetram na tat
anyagaṇitakṣetraḥ samānam | tat ca ā

pañcakṛtimukhena yutam ṣaṣṭih vasudhāpramāṇam ākhyātam |
karṇau trayodaśamītā catustribhīḥ tāḍītā kramaśaḥ || 4 ||

asya yau avalambakau tau na sadṛśau | atra ca yat upadiṣyate tasya yau avalambakau
tau tulyasaṅkhyau | tena gaṇitaśāstrāntaropadiṣṭaviṣamacaturaśrakṣetrasya asya ca
asādṛśyam sati api ca viṣamatve |

atha yat gaṇitaśāstrāntaropadiṣṭaviṣamacaturaśrakṣetram yat ca iha upadiṣyate tayoḥ
dvayoh api phalanirdeśaḥ api anena upadeśena śakyate [kartum] |
durjñātāvalambakasya kim ? ucyate ā viṣamakṣetreṣu phalamātram eva uddiṣya[te], na
sampātalekhe ca iti | atha cet pariññātah avalambakah bhavati tadā phalam ca
sampātalekhe ca śakyate vijñātum | katham ? pūrvopadiṣṭagaṇitakarmanā eva |

uddeśakah ā

āyāmaḥ dvādaśa proktah bhūmiḥ ekonavimśatih |
mukham pañca samākhyātam karṇau tasya atha kīrtitau ||
daśa pañca-tribhīḥ ca eva samyuktāni pṛthak pṛthak |
phalam sampātalekhe ca jñātum icchāmi tattvataḥ || 5 ||

nyāsaḥ ā

labdhe sampātalekhe

2 9

1 1

2 2 |

kṣetraphalam 144 | evam anyeṣu api evaṁvidheṣu kṣetreṣu phalānayanam
sampātalekhānayanam ca || 8 ||

[kṣetraphalam pratyayakaraṇam ca]

sarvakṣetrāṇām phalapratyayakaraṇārtham āha ā

sarveṣām kṣetrāṇām prasādhya pārśve phalam tadabhyāsaḥ |

sarveṣām kṣetrāṇām phalam nirdeṣṭavyam | katham ? prasādhya pārśve | "pra"-śabdah
prakṛṣṭavācī, prakarṣeṇa pārśve sādhayitvā iti | kah ca tayoḥ prasādhyamānayoḥ
pārśvayoḥ prakarṣaḥ ? ucyate ā pārśvatā | kah punar arthaḥ pārśvatāśabdasya iti |
ucyate ā yadi sarvakṣetram prasādhyamānam, [tadā "pārśvatā"-śabdāsyā arthaḥ]
pārśve eva bhavati, āyatacaturaśram eva iti yāvat | phalam tadabhyāsaḥ | teṣām
sarvakṣetrāṇām pratyākalitapārśvāyatacaturaśrāṇām
phalam tayoḥ pārśvayoḥ abhyāsaḥ, vistārāyāmābhyāsaḥ iti yāvat | "abhyāsaḥ guṇanā
saṁvargah" iti paryāyāḥ |

atha sarvaśabdasya niravaśeṣavācītvāt niravaśeṣāṇi eva kṣetrāṇi āksipyante, tasmāt
sarvakṣetrāṇām phalasya anena eva sūtreṇa siddhatvāt pūrvābhihitasūtrābhidhānam
anarthakam | na anarthakam | pratyayakaraṇam phalam ca anena ucyate | abhihitānām
kṣetrāṇām phalasya pratyayakaraṇam, yasmāt gaṇitavidah maskari-pūraṇa-

pūtanādayah sarvesām kṣetrāṇām phalam āyatacaturaśrakṣetre pratyāyayanti | uktam
ca ā

karaṇaiḥ uktaiḥ nityam phalam anugamya āyate tu vijñeyam |
pratyayakaraṇam kṣetre vyaktam phalam āyate yasmāt ||

anabhihitānām kṣetrāṇām phalān ayanam abhīṣṭakṣetrāyatacaturaśrīkaraṇena eva |

atha katham ekena eva yatnena phalānayanam pratyayakaraṇam ca prasādhyate ?
atha idam pratyayakaraṇārtham prakṛtam, sa katham phalānayanāya bhavati ? atha
phalānayanārtham, katham pratyayakaraṇāya ? nea eṣah doṣah | anyārtham prakṛtam
anyārtham sādhakam drṣṭam | tat yathā ā "śālyartham kulyāḥ pranīyante | tābhyaḥ ca
pānīyam pīyate, upasprṣyate ca |" [aṣṭādhyāyī, 1.1.22, pātañjalabhbāṣyam] evam iha
api | tat yathā ā

āyatacaturaśrakṣetraphalānayana uddeśakah ā

aṣṭau pañca ca pañktivistārah dairghyam api amīṣām yat |
aṣṭīḥ dvādaśa manavaḥ gaṇitam kiyat āyatānām tu || 1 ||

nyāsaḥ ā

parilekhaḥ 18

aṣṭau ekam pārśvam ; ṣoḍaśa anyat | tayoḥ pārśvayoh abhyāsaḥ, phalam āgatam 128 |
śeṣayoh api evam eva 60, 140 |

pūrvasūtraniśpannakṣetraphalānām pratyayakaraṇam pradarśyate | tat yathā ā

tricaturbhujavṛttānām dṛṣṭāni phalāni yāni gaṇitena |
teṣām pratyayakaraṇam kathaya katham bhavati sarveṣām || 2 ||

asya samatryaśrikṣetrasya pūrvadrṣṭasya eva katham phalapratyayakaraṇam [iti]
nyāsaḥ ā

parilekhaḥ 19

etat eva nyastam āyatacaturaśrakṣetram jātam ā

parilekhaḥ 20

[tribhujasya avalambakah āyāmah] karanyaḥ

36

3

4

[bhūmyardham vistāraḥ karanyaḥ

12

1

4]

phalam pārśvayoh abhyāsaḥ iti karanyaḥ

450

3

16

pūrvalikhitā [eva] |

evam eva [dvi]sameṣu, viṣameṣu ca | viṣamākhyasya nyāsaḥ ā

parilekhaḥ 21

asya api avalambakaḥ āyāmaḥ 12, bhūmyardham vistāraḥ 7 |

parilekhaḥ 22

asya api pūrvavat eva vistārāyām ayoḥ samvargah phalam 84 |

athavā āyatacaturaśrakṣetrayoḥ ardhakṣetraphalasamyoγah asya phalam | tayoḥ dvayoh pañcavistārasya dvādaśāyām asya ekasya, dvitīyasya api navavistārasya dvādaśāyām asya ardhakṣetraphalasamyoγah asya phalam | tayoḥ dvayoh pañcavistārasya dvādaśāyām asya ekasya dvitīyasya api navavistārasya dvādaśāyām asya nyāsaḥ ā

parilekhaḥ 23

dvādaśapañcakasya phalam vistārāyāmābhyāsakrameṇa 60, asya ardham eva asmin viṣamatryāśrikṣetre iti 30, nava[vistāra]dvādaśāyām asya phalam 108, asya api ardham eva asmin anupraviṣṭam iti 54 ; etayoḥ ardhaphalayoḥ yogah sā eva caturaśītih 84 |

evam dvīsamatisamaviṣamacaturaśreṣu api phalam pratyāyanīyam | vṛttakṣetre viṣkambhārdham vistāraḥ, paridhyardham āyāmaḥ, tat eva āyatacaturaśrakṣetram | anayā diśā prakīrṇakṣetre phalam svadhiyā abhyūhyam | tat yathā ā

mukham ekādaśa drṣṭam pratimukham api ucyate tathā ca nava |
āyāmaḥ vimśatikah phalam asya kiyat bhavet gaṇaka || 3 ||

nyāsaḥ ā

parilekhaḥ 24

karaṇam ā "prasādhya pārśve phalam tadabhyāsaḥ" iti viṣamayoḥ pārśvayoh yogah 20,
asya ardham 10. [āyāmaḥ 20]. ete daśakavimśatike pārśve | etayoḥ abhyāsaḥ
kṣetraphalam [200] |

uddeśakah ā

asṭāṣṭau pañavamukhe vyāsaḥ dvau śoḍaśa ucyate dairghyam |
kiyat asya phalam vācyam pañavākṛtisamsthitasya asya || 4 ||

nyāsaḥ ā

parilekhaḥ 25

karaṇam ā mukhayoḥ samāsaḥ 16, ardham 8. etat vistāreṇa 2 yuktam 10. asya ardham
5. evam "prasādhya pārśve phalam tadabhyāsaḥ" iti āgatam phalam 80 |

uddeśakah ā

vistāraḥ pañca uktāḥ navodaram pṛṣṭham asya pañcadaśa |
karidantakṣetraphalam kiyatpramāṇam vinirdeśyam || 5 ||

nyāsaḥ ā

parilekhaḥ 26

karaṇam ā prsthodarasamāsaḥ 24. ardham 12. etat vistārārdhaguṇam phalam trimśat
30 |

evam sarvakṣetreṣu pārśvadvayaparikalpanayā phalam nirdeṣṭavyam |

[vyāsārdhatulyajyā]

samavṛttaviṣkambhārdhatulyajyāpradarśanārtham āha ā

paridheḥ ṣaḍbhāgajyā viṣkambhārdhena sā tulyā || 9 ||

paridhiḥ parināhah vṛttam iti paryāyāḥ | tasya paridheḥ ṣaḍbhāgasya yā jyā sā
viṣkambhārdhena tulyā | paridheḥ ṣaḍbhāgah rāśidvayam | rāśidvayakṣetrāvagāhinī yā
jyā sā paridheḥ ṣaḍbhāgasya jyā | tasyāḥ ardham rāśeh ekasya ardhaijyā | etat ca
sarvam chedyake pratipādanīyam iti | asmin ca
viracitamukhadeśasitavartyaṇkurakarkaṭena ālikhite chedyake yat ṣaḍbhāgajyāyāḥ
ardham tat rāśeh ardhaijyā | tayā ardhaijyayā nirjñātāyāḥ ardhaijyakotpattim vakṣyati
| etām eva ṣaḍbhāgajyām pratipādayiṣatā vṛtakṣetre ṣaṭ samatryaśrikṣetrāṇi
prasaṅgena pradarśitāni | atra viṣkambhārdhabāhūni | ṣaṭ vā dhanuhkṣetrāṇi
viṣkambhārdhajyākāni | evam ca ṣaḍaśrikṣetram | prayojanam ca asya
ṣaḍbhāgajyāpradarśanasya "samavṛttaparidhipādam chindyāt" [gaṇitaī, 11] iti asyām
kārikāyām vakṣyati || 9 ||

[vṛtte vyāsaparidhisambandhah]

trairāśikena samavṛttānayanārtham āha ā

caturadhikam śatam aṣṭaguṇam dvāśaṣṭih tathā sahasrāṇām |

ayutadvayaviṣkambhasya āsannah vṛttapariṇāhah || 10 ||

caturbhiḥ adhikam caturadhikam | kim tat ? śatam | aṣṭābhiḥ gunitam aṣṭaguṇam | etat
uktam bhavati ā aṣṭau śatāni dvātrimśaduttarāṇi iti | sahasrāṇi ca dvāśaṣṭih | etat
ubhayam ekatra 62832 | ayutadvayam ca viṣkambhah ca ayutadvayaviṣkambhah |
athavā ayutadvayasaṅkhyah viṣkambhah ayutadvayapramāṇah vā
ayutadvayaviṣkambhah | tasya ayutadvayaviṣkambhasya | sa ca 20000 | āsannah
vikāṭah | kasya āsannah ? sūkṣmasya pariṇāhasya | katham vijñāyate
sūkṣmasya āsannah iti, na punar vyāvahārikasya āsannah ; yāvatā śrutaparikalpanā
sūkṣmavyāvahārikayāyoḥ tulyā | na eṣaḥ doṣaḥ, sandehamātram idam |
sarvasandeheṣu vedam avatiṣṭhate "vyākhyānataḥ viśeṣapratipattiḥ [nahi sandehāt
alakṣaṇam]" [aṣṭādhyāyī, śivasūtram 6, pātañjalabhāṣyam] iti | tasmāt sūkṣmasya
āsannah iti vyākhyāsyāmaḥ | athavā āsannaśabdena tatsamīpavartinā abhidhīyate |
tena ca tat eva āsannaśabdena ucyate | tarhi kiñcit bhinnam | yadi
vyāvahārikāsannah vyāvahārikāt api pāpiyān paridhiḥ, na kaścit pāpataram prayāsam
karoti, tena sūkṣmāsannah iti nyāyasiddham | atha āsannaparidhiḥ kasmāt ucyate, na
punar sphuṭaparidhiḥ eva ucyate ? evam manyante ā sa upāyaḥ eva na asti yena
sūkṣmaparidhiḥ ānīyate | nanu ca ayam asti ā

vikkhāṇbhavaggadasaguṇakaraṇī vaṭṭassa parirao hodi |

[viśkambhavargadaśaguṇakaraṇī vṛttasya pariṇāhah bhavati |]

iti | atra api kevalah eva āgamah na eva upapattiḥ | rūpaviśkambhasya daśakaraṇyah
paridhiḥ iti | atha manyate pratyakṣeṇa eva pramīyamāṇah rūpaviśkambhakṣetrasya
paridhiḥ daśakaraṇyah iti | na etat, aparibhāṣitapramāṇatvāt karaṇīnām |
ekatrvistārāyām āyatacaturaśrakṣetrakarṇena daśakaraṇikena eva
tadviśkambhapharidhiḥ veṣṭyamāṇah sa tatpramāṇah bhavati iti cet tat api sādhyam eva
|

anyat ca ā vṛttakṣetre catvāri dhanuhkṣetrāṇi, ekam āyatacaturaśrakṣetram | teṣām
phalasamāṣena vṛttakṣetraphalena bhavitavyam | tāni phalāni saṃyojyamānāni na
vṛttakṣetraphalatulyāni bhavanti |

tatpratipādanārtham uddeśakah ā

daśaviśkambhakṣetre pūrvāparabhāge ekarūpam avagāhya |
jīvā ṣad dakṣiṇottarayoh api dve rūpe avagāhya aṣṭau ||

tāsām jīvānām ānayanopāyasūtram gāthā ā

ogāhūṇam vikkhambham egāheṇa saṃguṇam kuryāt |
cauguṇiassā tu mūḍam jīvā savvakhattāṇam ||
[avagāhonam viśkambham avagāheṇa saṃguṇam kuryāt |
caturguṇitasya tu mūḍam sā jīvā sarvakṣetrāṇām ||]

dhanuhkṣetranyāsaḥ ca ā

dhanuhṛkṣetraphalānayane sūtram gāthā ā

isupāyaguṇā jīvā dasikaraṇi bhavet vigaṇiya padam |
dhanupaṭṭa ammikhatte edam karaṇam tu ḡāavvam ||
[iṣupādaguṇā jīvā daśakaraṇībhiḥ bhavet viguṇya phalam |
dhanuhṛpatte asmin kṣetre etat karaṇam tu jñātavyam ||]

anayā gāthayā pūrvāparadhanuhṛkṣetraphale kai

90

4,

kai

90

4.

ete kṣetraphale karaṇiprakṣepavidhānena prakṣeptavye | karaṇīprakṣetrapasūtram
gāthā ā

auvaṭṭi a dassakeṇa i mūlasamāsassamothavat |
ovaṭṭaṇāyaguṇiyam karaṇisamāsam tu ḡāavvam ||
[apavartya ca daśakena hi mūlasamāsaḥ samottham yat |
apavartanāṅkagunitam karaṇisamāsam tu jñātavyam ||]

tathākṛtvā labdham kai 90 | dakṣinottaradhanuṣoh api tathā eva phale kai 160, kai 160 |
[samāsaḥ ca kai] 640 | samastayoḥ punar samāsaḥ kai 1210 |
madhyasthāyatacaturaśrakṣetraphalam karaṇyah 2304 |
dhanuhṛkṣetraphalasamāsarāśeḥ asya ca karaṇīsamāsakriyayā samasyamāne rāsyoh

asamkṣepatā |

prṣṭhānayanam api ca daśakaraṇīparidhiprakriyāparikalpanayā sadā na [bhavati | yataḥ] prṣṭhānayane sūtram āryārdham ā

jyāpādaśarārdhayutih svaguṇā [daśasaṅguṇā karanyastāḥ]

[atra uddeśakah ā dvipañcāsat viṣkambhe dvīḥ avagāhya |]

"ogāhūṇam vikkhambham" iti anena jyā labdhā vimśatih [20] | [anayā jyayā]

prṣṭhānayanam ā jyāpādah

[20

4 =] 5,

śarārdha [1] yutih 6, svaguṇā 36, daśasaṅguṇāḥ 360, etā karaṇyah prṣṭham | sakalajyāvargaḥ catvāri śatāni, prṣṭham karaṇīnām ṣaṣṭiśatatravayam iti, katham etat samṛghaṭate | jyāyasā jyātah prṣṭhena bhavitavyam | tat etat vicāryamāṇam atyantasūkṣmavādinām jyātah prṣṭham alpiyamānam āpatitam atah asyai avicāritamanoharāyai namah astu daśakaraṇyai |

atha aparah api uddeśakah ā

ṣaḍvimśatīviṣkambhakṣetre ekam avagāhya |

pūrvakaraṇena eva jyā daśa 10 | pūrvavat eva prṣṭham asyāḥ navatih karaṇīnām 90 | jyāvargaḥ śatam 100 |

evam idam ālocyamānam atyantasthūlatām āpannam iti | tasmāt sa upāyah eva na asti

iti sūktam |

atha etau mahāntau rāśī kasmāt ucyete, na punar apavartitau eva ucyete; ācāryah ca lāghavikah, na tasya lāghavikasya mahārāśyabhidhānam yujyate | idam ekam ācāryasya mr̄syatām | athavā ayutadvayavīkambham iti alpaiḥ akṣaraiḥ ucyate | na tathā apavartitavīkambhābhidhāne alpākṣaratā | athavā manyate ā mahāparidhīvīkambhābhidhāne mahāvīkambhāsu jyāsu alpaparigrāhāpacayeṣu na phalavišeṣah alpāntaratvāt iti, tathā ca "makhi" ādiṣu kvacit asataḥ upādānam kṛtam, kvacit ca sataḥ parityāgah |

pariṇāhah paridhiḥ, vṛttam kṣetram, vṛttasya pariṇāhah vṛttapariṇāhah, vṛttaparidhiḥ iti arthaḥ | anena viṣkambhe nirjñāte paridhiḥ ānīyate, paridhau ca nirjñāte viṣkambhe iti | katham ? yadi asya viṣkambhasya ayam paridhiḥ icchāvīkambhasya kiyān, yadi asya paridheḥ ayam viṣkambhaḥ icchāparidheḥ kiyān iti |

uddeśakah ā

dvicatuḥsaptāṣṭānām vyāsānām yāni vṛttaganitāni |
sūkṣmāsannāni sakhe vigaṇaya gaṇitānusāreṇa || 1 ||

kṣetrasya nyāsaḥ ā

parilekhaḥ 28

labhdāni vṛttāni yathākramenaḥ ā

177 354 1239 83

625 625 1250 625

paridhau nirjñāte viśkambhānayane uddeśakah ā

navanavayamarāmāñām aṣṭābhiḥ śarayamāṁśahīnānām |
khakharasavṛndasya ca me vyāsau ācakṣva vigaṇayya || 2 ||

nyāsaḥ ā

3299

8

25 | 21600

labdhau yathākramena vyāsau 1050 | 6875

625

1309

[chedyakavidhinā jyā ānayanam]

atha jyānayanārtham āha ā

samavṛttaparidhipādam chindyāt tribhujāt caturbhujāt ca eva |
samacāpajyārdhāni tu viśkambhārdhe yathā iṣṭāni || 11 ||

samavṛttam paridhiḥ yasya kṣetrasya tatkṣetram samavṛttaparidhiḥ, tasya pādah
samavṛttaparidhipādah | sati etasmin vyākhyāne kṣetraphalasya grahaṇam prāpnoti |
ācāryaprabhākareṇa ayam eva vigrahaḥ pradarśitaḥ | sa guruḥ iti kṛtvā asmābhiḥ na

upālabhyate | anyat ca ā kāṣṭhatulyajyābhidhānam yuktam iti aśāstrajñah api jānāti iti
tena eva kāṣṭhatulyajyā pratyākhyātā | vayam tu brūmaḥ ā asti kāṣṭhatulyajyā iti | yadi
kāṣṭhatulyajyā na syāt tadā samāyāmavanau

vyavasthānam eva ayoguḍasya na syāt | tena anumīmahe kaścit pradeśah saḥ asti iti
yena asau ayoguḍah samāyāmavanau avatiṣṭhate | sa ca pradeśah paridheḥ
śaṇṇavatyamśah | kāṣṭhatulyajyā anyaiḥ api ācāryaiḥ abhyavagatā ā

tatparidheḥ śatabhāgam sprśati dharām golakaśarīrāt |

iti | samavṛttah ayam paridhiḥ samavṛttaparidhiḥ, samavṛttaparidheḥ pādah
samavṛttaparidhipādah, tam samavṛttaparidhipādām chindyāt | jyāvibhāgena iti
vākyāśeṣah | jyāvibhāgena samavṛttaparidhau khaṇḍyamāne tribhujāt caturbhujāt ca
kṣetrāt samacāpajyārdhāni niṣpadyante, na viṣamacāpajyārdhāni | tāni viśiṣṭāni eva
parigṛhyante, dvicaturaṣṭaśoḍaśadvātrīṁśat iti ādīni dviguṇottarāṇi | "tu"-śabdāt
dvicatuṣṣaḍaṣṭadaśadvādaśacaturdaśādīni ca | viṣkambhārdhe
tribhujakṣetram utpadyate | tasmāt tribhujāt caturbhujāt ca kṣetrajyārdhāni niṣpadyante |

katham punar viṣkambhārdhe tribhujam ca caturbhujakṣetram utpadyate iti ucyate ā
yasya vyāsārdham bhujā karṇah vā bhavati tadvyāsārdhe niṣpannam | athavā
viṣkambhārdhe eva jyārdhāni niṣpadyante | viṣkambhārdhāvayavatvāt na
viṣkambhārdham atiricya vartante iti arthah | athavā viṣkambhārdhe sati jyārdhāni
niṣpadyante | nirjñāte hi viṣkambhārdhe śakyate jyā kalpayitum, na anyathā | katham ?
yasmāt uktam "paridheḥ śaḍbhāgajyā viṣkambhārdhena
sā tulyā" [gaṇitaí, 9] iti | yathā iṣṭāni yathā īpsitāni, samacāpajyārdhāni |

asyām kārikāyām jyotpattivistumātram eva pratipāditam ācāryeṇa, [karaṇam] tu na
pratipāditam; pradeśāntaraprasiddhatvāt karaṇasya | athavā jyotpattau yat karaṇam tat

sarvam chedyakaviṣayam, chedyakam ca vyākhyānagamyam iti [na] pratipāditam |

atha kim artham samavṛttaparidhipādah eva jyāvibhāgena chidyate, na punar samavṛttaparidhiḥ chidyate ? na eṣah doṣah | samavṛttaparidhipādapramāṇamāṭram trayah rāśayah | evam catusu caturbhāgeṣu | yasmāt paridhipādapramāṇasya tulyatvāt sarveṣām paridhipādānām jyārdhāni tulyāni bhavanti iti paridhipādajyārdhe iti eva pratipāditāni vyavahāraprasiddhyartham |

uddeśakah ā

vasudahanakṛtahutāśanasāṅkhye viṣkambhārdhe kiyatpramāṇāni jyārdhāni |

rāśyārdhakāṣṭhāni niṣpādyante | viṣkambhārdham 3438 |

karaṇam ā yāvat tāvat pramāṇaparicchinnaviṣkambhārdhatulyena karkaṭakena maṇḍalam ālikhya tat dvādaśadhā vibhajet | te ca dvādaśabhāgāḥ rāśayah iti parikalpyāḥ | atha dvādaśadhā vibhakte maṇḍale pūrveṇa rāśidvayāgrāvagāhiṇīm dakṣiṇottarām jyākārām lekhām kuryāt | evam paścimabhāge api | evam eva dakṣiṇottarabhāgayoḥ api ca pūrvāparāyatām jyām kuryāt | punar api ca pūrvāparadakṣiṇottaradikṣu tathā eva ca rāśicatuṣṭayāgrāvagāhinyah lekhāḥ kuryāt | tathā tryaśrī[ṇi] kartavyāni |

tathā ca paridhiniṣpannam kṣetram karkaṭakena viracitavartikāmukhena likhyate | evam ālikhite kṣetre sarvam pradarśayitavyam |

atra ālekhye vyāsārdhatulyā caturñām kāṣṭhānām [pūrṇa]jyā | tadardham dvikāṣṭhajyā | sā ca 1719 | eṣā bhujā, vyāsārdham karṇaḥ iti, bhujākarṇavargaviśeṣasya mūlam avalambakah | sā eva caturñām kāṣṭhānām jyā | sā ca 2978 | etām vyāsārdhāt viśodhya śeṣam dvikāṣṭhaśarah, śaradvikāṣṭhajyāvargayogamūlam karṇaḥ | sā eva dvikāṣṭha[pūrṇa]jyā ca 1780 | ardham asyāḥ kāṣṭhasya ekasya jyā, 890 | eṣā bhujā, vyāsārdham karṇaḥ | bhujākarṇavargaviśeṣasya mūlam avalambakah | sa ca pañcānām kāṣṭhānām jyā | sā ca 3321, viśamatvāt ataḥ jyā na utpadyante | evam tribhujāt pañca jyārdhāni vyākhyātāni |

antaḥsamacaturaśrakṣetre vyāsārdhatulyā bāhavah | tasya karṇaḥ vyāsārdhayoḥ vargayogamūlam | tat ca 4862 | asya ardham trayāṇām kāṣṭhānām jyā | sā ca 2431 | evam ekā jyā caturbhujāt niṣpannā, viśamatvāt utpattiḥ na asti |

viṣkambhārdhe ṣaṭ rāsyardhakāṣṭhajyārdhāni pratipāditāni | tasmin eva viṣkambhārdhe rāśicaturbhāgakāṣṭhajyā vyākhyāsyāmaḥ | tat yathā ā pūrvavat ālikhite kṣetre vyāsārdham eva aṣṭānām kāṣṭhānām [pūrṇa]jyā | tadardham caturñām kāṣṭhānām jyā, sā ca 1719 | iyam bhujā, vyāsārdham karṇaḥ, bhujākarṇavargaviśeṣamūlam koṭih | sā aṣṭānām kāṣṭhānām jyā, sā ca 2978 | etām vyāsārdhāt viśodhya śeṣam catuhkāṣṭhajyāśarah | śaracatuṣkāṣṭhajyāvargayogamūlam karṇaḥ | sā caturñām kāṣṭhānām [pūrṇa]jyā, sā ca 1780 | taddalam dvikāṣṭhajyā, [sā] ca 890 | eṣā bhujā, vyāsārdham karṇaḥ, bhujākarṇavargaviśeṣamūlam koṭih | sā daśānām kāṣṭhānām jyā, sā ca 3321 | etām vyāsārdhāt viśodhya śeṣam dvikāṣṭhaśarah | śaradvikāṣṭhajyāvargayogamūlam karṇaḥ | sā eva dvikāṣṭha[pūrṇa]jyā, sā ca 898 | ardham asyāḥ kāṣṭhasya ekasya jyā, sā ca 449 | eṣā bhujā, vyāsārdham karṇaḥ, bhujākarṇavargaviśeṣasya mūlam koṭih | sā ekādaśānām kāṣṭhānām jyā, sā ca 3409 | viśamatvāt ataḥ jyā na utpadyate |

atha dvikāṣṭhajyām vyāsārdhāt viśodhya śeṣam daśakāṣṭhaśarah |
śaradaśakāṣṭhajyāvargayogamūlam karṇah | sa [eva] kāṣṭhānām daśānām [pūrṇa] jyā,
sā ca 4186 | ardham asyāḥ pañcānām kāṣṭhānām jyā, sā ca 2093 | eṣā bhujā,
vyāsārdham karṇah, bhujākarṇavargaviśeṣasya mūlam koṭih | sā saptānām kāṣṭhānām
jyā, sā ca 2728 | viśamatvāt ataḥ jyā na utpadyate | evam tribhujāt nava jyārdhāni |

pūrvavaduktasamacaturaśrakṣetrasya vyāsārdhabhukasya vyāsārdhayoh
vargayogamūlam karṇah | sa ca dvādaśānām kāṣṭhānām [pūrṇa]jyā, sā ca 4862 |
ardham asyāḥ ṣaṇṇām kāṣṭhānām jyā, sā ca 2431 | etām vyāsārdhāt viśodhya śeṣam
ṣaṭkāṣṭhaśarah, śaraṣaṭkāṣṭhajyāvargayogamūlam karṇah | sa eva ṣaṇṇām kāṣṭhānām
[pūrṇa]jyā, sā ca 2630 | ardham asyāḥ trayāṇām kāṣṭhānām jyā, sā ca 1315 | eṣā
bhujā, vyāsārdham karṇah, bhujākarṇavargaviśeṣasya
mūlam koṭih | sā navānām kāṣṭhānām jyā | sā ca 3177 | viśamatvāt ataḥ jyā na
utpadyate | evam caturbhujāt tisrah jyāḥ | viṣkambhārdhe dvādaśa |

dvādaśa rāśicaturbhāgakāṣṭhajyārdhāni vyākhyātāni | tasmin eva viṣkambhārdhe
rāśyaṣṭabhāgajyā vakṣyāmaḥ | tat yathā ā pūrvavadālikhite kṣetre vyāsārdham eva
śoḍāśānām kāṣṭhānām [pūrṇa]jyā | tadardham aṣṭānām kāṣṭhānām jyā, sā ca 1719 |
eṣā bhujā, vyāsārdham karṇah, bhujākarṇavargaviśeṣasya mūlam koṭih | sā
śoḍāśānām kāṣṭhānām jyā, sā ca 2978 | etām vyāsārdhāt viśodhayet | śeṣam
aṣṭakāṣṭhaśarah | śarāṣṭakāṣṭhajyāvargayogamūlam
karṇah | sa eva aṣṭānām kāṣṭhānām [pūrṇa]jyā, sā ca 1780 | ardham asyāḥ caturṇām
kāṣṭhānām jyā, sā ca 890 | eṣā bhujā, vyāsārdham karṇah, bhujākarṇavargaviśeṣasya
mūlam koṭih | sā eva viṁśateḥ kāṣṭhānām jyā, sā ca 3321 | etām vyāsārdhāt viśodhya
śeṣam catuhkāṣṭhaśarah | śaracatuṣkāṣṭhajyāvargayogamūlam karṇah | sa eva
caturṇām kāṣṭhānām [pūrṇa]jyā, sā ca 898 | ardham asyāḥ kāṣṭhayoh jyā, sā ca 449 |

esā bhujā, vyāsārdham karṇah, bhujākarṇavargaviśeṣasya
mūlam koṭih | sā eva dvāvīmśateḥ kāṣṭhānām jyā, sā ca 3409 | etām vyāsārdhāt
viśodhayet | śeṣam dvikāṣṭhaśarah | śaradvikāṣṭhajyāvargayogamūlam karṇah | sa eva
kāṣṭhayoh [pūrṇa]jyā, sā ca 450 | ardham asyāḥ kāṣṭhasya jyā, sā ca 225 | esā bhujā,
vyāsārdham karṇah, bhujākarṇavargaviśeṣasya mūlam koṭih | sā eva trayovīmśateḥ
kāṣṭhānām jyā, sā ca 3431 | viśamatvāt ataḥ jyā na utpadyate |

atha caturṇām kāṣṭhānām jyām vyāsārdhāt viśodhayet | śeṣam vīmśateḥ kāṣṭhānām
śarah | śaravīmśatikāṣṭhajyāvargayogamūlam karṇah | sa vīmśateḥ kāṣṭhānām
[pūrṇa]jyā, sā ca 4186 | ardham asyāḥ daśānām kāṣṭhānām jyā, sā ca 2093 | esā bhujā,
vyāsārdham karṇah, bhujākarṇavargaviśeṣasya mūlam koṭih, sā eva caturdaśānām
kāṣṭhānām jyā, sā ca 2728 | etām vyāsārdhāt viśodhayet | śeṣam daśakāṣṭhānām
śarah | śaradaśakāṣṭhajyāvargayogamūlam
karṇah | sa eva daśānām kāṣṭhānām [pūrṇa]jyā, sā ca 2210 | ardham asyāḥ pañcānām
kāṣṭhānām jyā, sā ca 1105 | esā bhujā, vyāsārdham karṇah,
bhujākarṇavargaviśeṣamūlam koṭih | sā eva ekonavīmśateḥ kāṣṭhānām jyā, sā ca 3256
| viśamatvāt ataḥ jyā na utpadyate |

atha dvikāṣṭhajyām vyāsārdhāt viśodhayet | śeṣam dvāvīmśateḥ kāṣṭhānām śarah |
śaradvāvīmśatikāṣṭhajyāvargayogamūlam karṇah | sa eva dvāvīmśateḥ kāṣṭhānām
[pūrṇa]jyā | sā ca 4534 | ardham asyāḥ ekādaśānām kāṣṭhānām jyā, sā ca 2267 | esā
bhujā, vyāsārdham karṇah, bhujākarṇavargaviśeṣasya mūlam koṭih | sā eva
trayodaśānām kāṣṭhānām jyā, sā ca 2585 | viśamatvāt ataḥ jyā na utpadyate |

atha daśānām kāṣṭhānām jyām vyāsārdhāt viśodhayet | śeṣam caturdaśānām
kāṣṭhānām śarah | śaracaturdaśakāṣṭhajyāvargayogamūlam karṇah | sa eva
caturdaśānām kāṣṭhānām [pūrṇa] jyā, sā ca 3040 | ardham asyāḥ saptānām kāṣṭhānām

jyā, sā ca 1520 | eṣā bhujā, vyāsārdham karṇah, bhujākarṇavargaviśeṣamūlam koṭih | sā eva saptadaśānām kāṣṭhānām jyā, sā ca 3084 | viśamatvāt ataḥ jyā na utpadyate |

evam tribhujāt rāśyaṣṭabhbhāgakāṣṭhajyāḥ vyākhyātāḥ | atha caturbhujāt vyākhyāsyāmaḥ | antaḥsamacaturaśrakṣetrasya vyāsārdhatulyāḥ bāhavaḥ | tayoḥ vargayogamūlam karṇah | sa eva caturvīṁśateḥ kāṣṭhānām [pūrṇa]jyā, sā ca 4862 | ardham asyāḥ dvādaśānām kāṣṭhānām jyā, sā ca 2431 | etām vyāsārdhāt viśodhayet | śeṣam dvādaśānām kāṣṭhānām śaraḥ | śaradvādaśakāṣṭhajyāvargayogamūlam karṇah | sa eva dvādaśānām kāṣṭhānām [pūrṇa]jyā, sā ca 2630 | ardham asyāḥ ṣaṇṇām kāṣṭhānām jyā, sā ca 1315 | eṣā bhujā, vyāsārdham karṇah, bhujākarṇavargaviśeṣasya mūlam koṭih | sā aṣṭādaśānām kāṣṭhānām jyā, sā ca 3177 | etām vyāsārdhāt viśodhayet | śeṣam ᷣaṇṇām kāṣṭhānām śaraḥ | śaraṣṭākāṣṭhajyāvargayogamūlam karṇah | sa eva ᷣaṇṇām kāṣṭhānām [pūrṇa]jyā, sā ca 1342 | ardham asyāḥ trayāṇām kāṣṭhānām jyā, sā ca 671 | eṣā bhujā, vyāsārdham karṇah, bhujākarṇavargaviśeṣasya mūlam koṭih, sā eva ekavīṁśateḥ kāṣṭhānām jyā, sā ca 3372 | viśamatvāt ataḥ jyā na utpadyate |

atha ᷣaṇṇām kāṣṭhānām jyām vyāsārdhāt viśodhayet | śeṣam aṣṭādaśakāṣṭhānām śaraḥ | śarāṣṭādaśakāṣṭhajyāvargayogamūlam karṇah | sa eva aṣṭādaśānām kāṣṭhānām [pūrṇa]jyā, sā ca 3820 | ardham asyāḥ navānām kāṣṭhānām jyā, sā ca 1910 | eṣā bhujā, vyāsārdham karṇah, bhujākarṇavargaviśeṣamūlam koṭih | sā eva pañcadaśānām kāṣṭhānām jyā, sā ca 2859 | viśamatvāt ataḥ jyā na utpadyate |

evam rāśyaṣṭabhbhāgakāṣṭhajyāḥ caturvīṁśatih | anena eva vidhānena viṣkambhārdhe yatheṣṭāni jyārdhāni niṣpādayitavyāni iti || 11 ||

[prakārāntareṇa khaṇḍajyā]

jyāvibhāgapradarśanārtham āha ā

prathamāt cāpajyārdhāt yaiḥ ūnam khaṇḍitam dvitīyārdham |
tatprathamajyārdhāṁśaiḥ taiḥ taiḥ ūnāni śeṣāṇi || 12 ||

prathamāt ādyāt cāpajyārdhāt | yaiḥ ūnam yāvadbhiḥ amśaiḥ ūnam aprāptasadrśam |
kim tat ? khaṇḍitam dvitīyārdham, khaṇḍitam pūrvāryābhihitacchedyakavidhinā chinnam
dvitīyacāpajyārdham | tatprathamajyārdhāṁśaiḥ | tat iti yāvadbhiḥ¹
prathamacāpajyārdhāt dvitīyacāpajyārdham ūnam tāvantah taiḥ parigṛhyante, jyāyāḥ
ardham jyārdham, prathamam ca tajjyārdham ca prathamajyārdham ; athavā prathamā
ca asau jyā ca prathamajyā, prathamajyā
ca asau ardham ca prathamajyārdham ; prathamajyārdhasya amśaḥ
prathamajyārdhāṁśaḥ ; prathamajyārdhāṁśaḥ ca prathamajyārdhena bhāgam hṛtvā
labdhā yathā pañcāmśaḥ ṣaḍamśaḥ, te ca prathamajyārdhāṁśaḥ ca
tatprathamajyārdhāṁśaḥ taiḥ tatprathamajyārdhāṁśaiḥ | taiḥ taiḥ amśaiḥ iti
vīpsāgrahaṇam ca arthavat bhavati | ūnāni śeṣāṇi | ūnāni rahitāni, śeṣāṇi trīyādi
jyārdhāni bhavanti |

tat yathā ā prathamam cāpajyārdham idam chedyakena niśpannam 225 | dvitīyam
cāpajyārdhacchedam 224 | etat prathamacāpajyārdhāt ekena ūnam |
dvitīyacāpajyārdhāṁśam prathamacāpajyārdham ca ekatra 449 | asya
prathamacāpajyārdhena bhāge [hṛte] labdham ardhādhikena dve rūpe | tābhyaṁ
pūrveṇa ca [ekena ūnam] prathamacāpajyārdham [trīyajyārdham] bhavati | tat ca 222 |
trayāṇām saṃyogaḥ 671 | asya prathamacāpajyārdhena bhāgalabdhām ardhādhikena
trīṇi rūpāṇi | taiḥ pūrvalabdhaiḥ ca tribhiḥ ūnam prathamacāpajyārdham

caturthajyārdham bhavati | tat ca 219 | caturṇām jyārdhānām samyogaḥ 890 | asya
prathamajyārdhena bhāgalabdham catvāri rūpāṇi ardhādhikena | taiḥ pūrvaiḥ ca
śaḍbhiḥ ūnam prathamam cāpajyārdham pañcamajyārdham bhavati | tat ca 215 | etaiḥ
śeṣāṇi vyākhyātāni iti |

idam ca vyākhyānam ācāryaprabhākareṇa vyākhyātam | tat ca ayuktam anarthakam
apratyākhyāya vyākhyānam kartum | katham anarthakam ? atra gaṇitaśāstre
laghūpāyapradarśanārtham upāyāntarapradarśanārtham vā sūtrāntaram ārabhyate |
atra anyataragandhaḥ api na asti | katham ? pūrvāryābhihitachedyakavidhinā
nirjñātābhyaṁ prathamadvitīyacāpajyārdhābhyaṁ idam karma kriyate | tasmin
dvisūtrāyatatvāt karmaṇaḥ lāghavam na asti | upāyāntaratā
ca [na] pūrvasūtrāśrayatvāta |

etasmāt na arthaḥ anena sūtreṇa | katham punar imāḥ jyāḥ pṛthak pṛthak vijñāyante ?
atibāliśavākyam etat | tajjyotpatteḥ | kāṣṭhadvīkāṣṭhatrikāṣṭhādiyārdhāni pratipāditāni |
teṣām anyonyaviśeṣeṇa pṛthak pṛthak jyāḥ bhavanti iti agaṇitajñāḥ api ca jānāti, kim
punar sāṁvatsaraḥ | tathā ca mandabuddhipratipattyartham prastīryate | tat yathā ā

225, 449, 671, 890, 1105, 1315, 1520. 1719, 1910, 2093, 2267, 2431, 2585, 2728,
2859, 2978, 3084, 3177, 3256, 3321, 3372, 3409, 3431, 3438 |

anantarānantarararahitāḥ kramena pṛthak pṛthak jyāḥ ā

225, 224, 222, 219, 215, 210, 205, 199, 191, 183, 174, 164, 154, 143, 131, 119, 106,
93, 79, 65, 51, 37, 22, 7 |

etāḥ eva utkramena antyāt ārabhya utkramajyāḥ || 12 ||

[vṛttādisiddhiḥ]

vṛttādisiddhim diṇmātrapradarśanārtham āha ā

vṛttam bhramenā sādhyam tribhujam ca caturbhujam ca karṇābhyaṁ |
sādhyā jalena samabhūḥ adhah ūrdhvam lambakena eva || 13 ||

vṛttam kṣetram bhrameṇa sādhyate | bhramaśabdena karkaṭakah parigrhyate | tena
karkaṭena samavṛttam kṣetram parilekhapramāṇena parimīyate | tribhujam ca
caturbhujam ca karṇābhyaṁ | tribhujam kṣetram caturbhujam ca kṣetram karṇābhyaṁ
prasādhyate | tribhuja tāvat samāyāmavanau sūtram prasārya rekhām kuryāt | sā ca ā

parilekhah 30

atra ubhayāgravyavasthitena karkaṭakena matsyam utpādayet |
etadvaktrapucchaniṣkrāntāparasūtram avalambakah |

parilekhah 31

asya agre sūtrasya ekam agram nidhāya dvitīyāgram bhūmyagre niścalam nidhāya
rekhām kuryāt | dvitīyāgre api tathā eva | evam te karṇasūtre | tābhyaṁ
karṇasūtrābhyaṁ prasādhitam tribhujam ā

parilekhah 32

caturbhuje iṣṭa caturbhujā [karṇa] tulyam sūtram tiryak prasārayet | tat ca sūtram ā

parilekhaḥ 33

dvitīyam ca etat madhyajanitasvastikam tiryak eva prasāryate | tathā ca karṇasūtre

parikekhaḥ 34

etayoḥ pārśvāni pūritāni, caturaśrakṣetram niṣpannam |

parilekhaḥ 35

sādhyā jalena samabhūḥ | samabhūḥ jalena sādhyate | tat yathā ā
cakṣuḥsūtrasamīkṛtāyāmavānau trikāṣṭhopari nirvāte jalakumbham nidhāya adhaḥ
suśiram kuryāt, yathā tat udakam ekarūpayā dhārayā sravati | tat prasrutam ambhaḥ
samantāt parivartulam yatra prayāti sā bhūḥ samā, yatra tat ambhaḥ vṛttam bhaṅktvā
pratiṣṭhate tat nimnam, yatra na avagāhate tat unnatam iti | adhaḥ ūrdhvam lambakena
eva | adhaḥ upalakṣitasya yaḥ ūrdhvapradeśaḥ saḥ
avalambakena eva sādhyate | ūrdhvapradeśasya vā yaḥ adhaḥpradeśaḥ asau api
avalambakena eva | avalambakaḥ ca gurudravyaikāgrāsaktam sūtram iti || 13 ||

[svavṛttaviśkambhārdham]

svavṛttaviśkambhārdhānayanārtham āha ā

śāṅkoh pramāṇavargam chāyāvargaṇa samyutam kṛtvā |
yat tasya vargamūlam viśkambhārdham svavṛttasya || 14 ||

[śaṅkoh ākāraprakāravivecanam]

atra śaṅkoh ākārapramāṇayoḥ vipravadante sāṁvatsarāḥ | kecit tāvat āhuḥ ā
dvādaśāṅgulaśaṅkuḥ mūlatribhāge caturaśraḥ, madhyatribhāge tryaśriḥ, uparitribhāge
śūlākāraḥ iti | sūkṣmatvāt vigrahasya sūkṣmayā ekayā koṭyā chāyāgrasya sulakṣyatvāt
śeṣaiḥ ca duḥsampādatvāt iti tat ca na | śūlāgrasya avalambakasya vinyāsābhāvāt ḥjutā
eva duḥsampādyā | tadabhāvāt sarvaguṇābhāvāḥ | gopucchākṛtivṛttodarāḥ tu
bhraṣṭāvalambakatvena eva pratyākhyātā

|

apare āhuḥ ā caturaśraḥ caturdiśam avalambakasādhanasambhavāt koṭidvayena
chāyāgrahaṇāt abhīṣṭakotyām diggrahaṇasiddhiḥ iti | etat api yujyate, kintu tādṛśasya
samprati śilpināḥ samacaturaśrakṣetrasampādināḥ durlabhatvāt yadi api
svabhastavidaḥ kaścit kadācit sambhavet, tathā api pratikṣaṇam sūryasya
abhimukhasthāpanāt punar punar śaṅkoh mukhacālanam kartavyam | tathā ca
atiśūkṣmadṛśaḥ tāvatā abhīṣṭacchāyātikrāntā syāt iti doṣaḥ, etasmāt
parityājyaḥ ayam api śaṅkuḥ | anena eva sarvatra śaṅkavaḥ prayuktāḥ |

āryabhaṭīyāḥ svamatam abhinīśṭhāpayiṣavaḥ vyāvarṇayanti | tat yathā ā
praśastadārumayaḥ hi asuśiraḥ rājigranthavraṇavarjitaḥ bhramasiddhaḥ
mūlamadhyāgrāntarālatulyavṛttāḥ na alpavyāsaḥ na alpāyāmaḥ ca praśastāḥ | tribhiḥ
caturbhiḥ vā avalambakaiḥ asya ḥjusthitih sādhayitavyā | śaṅkoh madhyasūtrasya
asiddhatvāt avalambakasthitih api duḥsampādyā iti atah śaṅkumadhyasūtrasādhanam
pradarśyate | tat yathā ā śaṅkumuccē pradeśe niścalam nidhāya
avalambakena śaṅkumūlamastakayoḥ madhye vijñāya tadagraśaktam sūtram prasārya
ubhayapārśve ca lekhe kuryāt | etat ubhayapārśvamadhyalekhe, tataḥ punar api

karkaṭakena lohena mūlāgramadhyasūtrābhyaṁ matsyam utpādya
śeṣamadhyalekhāśādhanam | nanu ca atra api doṣaḥ asti eva, sarvadikṣu
tanmastakasya chāyāgrasya vīpulavṛttatvāt chāyāmadhyam durlakṣyam | tena ca vinā
ādigrahaṇābhāvah iti | na eṣaḥ doṣaḥ | śaṅkoḥ upari kendre viṣkambhārdhādhikānyā
samavṛttā śalākā madhyaprasādhinī lohī dārvī vā kriyate | tadā
ādigrahaṇamadhyaparijñānam ca bhaviṣyati iti | athavā prājñasya avalambakasūtreṇa
pūrvavinyastena eva kiñcit utkṣiptena madhyaparijñānam | atha aṅgulavibhāgāt
tīkṣṇena śastreṇa manāk śakalitam kṛtam | anyathā hi pramāṇagrahaṇam anarthakam
syāt | tasmāt yatheṣṭapramāṇaḥ śaṅkuḥ dvādaśāṅgulaḥ iti suprasiddham aṅgīkṛtya
ucyate | uddeśakesu etat pratipādayiṣyāmaḥ | yāvat yāvat ayam pr̄thuḥ
guruḥ ca bhavati tāvat tāvat vāyunā na eva cālyate, yāvat yāvat ca dīrghaḥ bhavati
tāvat tāvat ca aṅgulāvayavāḥ sūkṣmāḥ suparijñātāḥ bhavanti | tasmāt
pr̄thugurudīrgheṣu ādaraḥ kāryaḥ iti abhihitāḥ śaṅkoḥ ākāraḥ |

[śaṅkupramāṇavivecanam]

idānīm pramāṇam upadekṣyāmaḥ | kecīt āhuḥ ā ardhahastāḥ dvādaśadhā
vibhaktaśārīraḥ iti | na eṣaḥ niyamaḥ | kintu abhīṣṭasaṅkhyāpravibhaktaśārīraḥ
abhīṣṭasaṅkhyāpravibhaktāḥ iti arthaḥ | yatra pramāṇagrahaṇam kṛtam, tatra api
samāṅgulavibhāge kendravibhāge ca kauśalam abhyasanīyam |

[śloka-vyakhyā]

śaṅkoḥ pramāṇavargam, śaṅkoḥ ittham prapañcatapramāṇasya pramāṇagrahaṇam
aniyatapramāṇapratipādanārtham iti uktam | yadi śaṅkoḥ niyatam eva pramāṇam syāt
tadā śaṅkoḥ vargam iti iyatā api ucyamāne tanniyatapramāṇaḥ eva pratipattiḥ |

pramāṇasya vargah pramāṇavargah, tam pramāṇavargam | chāyāvargaṇa, chāyāyāḥ
vargah chāyāvargah, tena chāyāvargaṇa | samyutam kṛtvā, ekīkṛtya iti arthaḥ | yat tasya
vargamūlam, tasya samyuktasya rāśeh
vargamūlam yat, tat svavṛttaviśkambhārdham bhavati | kim tat vṛttam yasya idam
viśkambhārdham iti ucyate ? tat mūlatulyena karkaṭakena ālikhitasya vṛttasya tat
viśkambhārdham | yadi evam sarve eva saṃkhyāvišeṣah svavṛttaviśkambhārdham
bhavati | na eṣah doṣah | yadi sarvasaṃkhyāvišeṣah svavṛttaviśkambhārdham bhavati
eva, kim naḥ chinnam ? atra punar śaṅkupramāṇacchāyāvargayogamūlam
svaviśkambhārdham viśiṣṭam eva parigṛhyate, tena anyasya
svavṛttaviśkambhārdhasya grahaṇam na eva atra prasajyate | prasakte ca
doṣaparihāraḥ vā vidhīyate | atra ca svavṛttaviśkambhārdhagrahaṇam
trairāśikaprasiddhyartham ā yadi asya svavṛttaviśkambhārdhasya ete śaṅkucchāye tadā
golaviśkambhārdhasya ke iti śaṅkucchāye labhyete | tau eva viśuvati avalambakākṣajye
iti ucyate |

uddeśakah ā

pañcanavārdhacaturthā chāyā dṛṣṭā kṣitau samāyām tu |
viśuvan madhye sūtre śaṅkoh dvādaśavibhaktasya || 1 ||

nyāsaḥ ā śaṅkuḥ 12, chāyā 5; śaṅkuḥ 12, chāyā 9; śaṅkuḥ 12, chāyā

3

1

2

karaṇam ā śaṅkucchāyayoh vargau 144, 25, ekatra 169 | asya mūlam
svavṛttaviśkambhārdham | tat ca idam 13 | etasya kṣetrasya nyāsaḥ ā

parilekhaḥ 36

svavṛttaviśkambhārdham nāma chāyāgrāt ārabhya śaṅkumastakaprāpi sūtram |
tatsūtrānusāreṇa bhūmau dṛṣṭim nidhāya śaṅkumastakāsaktam vivasvantam paśyati |
akṣajyā ānayane traīrāśikasthāpanā ā 13 | 5 | 3438 | labdham akṣajyā 1322 | eṣā bhujā,
vyāsārdham karṇaḥ, bhujākarṇavargaviśeṣamūlam avalambakaḥ 3174 | traīrāśikena api
13 | 12 | 2328 | labdham avalambakaḥ 3174 | apare api atra kṣetraviśeṣāḥ | traīrāśike
vācaḥ yuktih ā yadi asya

svavṛttaviśkambhārdhasya chāyātulyā bhujā śaṅkutulyaḥ avalambakaḥ tadā asya
golavyāsārdhasya kau bhujau alambau iti | chāyayā ghaṭikānayane, madhyāhne
chāyayā ca sūryānayane svavṛttaviśkambhārdhasya ayam eva vidhiḥ | kintu chāyayā
ghaṭikānayane śaṅkunā kāryam iti śaṅkuḥ eva ānīyate | samamanḍalachāyayā
sūryānayane sa eva | madhyāhnacchāyayā sūryānayane natajyayā prayojanam iti
chāyā eva ānīyate |

śeṣayoh api svavṛttaviśkambhārdhe 15 |

12

1

2 |

traīrāśikena eva akṣajyāvalambakau 2063, 2750; 963, 3300 |

uddeśakah ā

pañcadaśāṅgulaśaṅkoh pādena yutā ṣaḍaṅgulā chāyā |
viśuvat dinamadhyāhne vācyā akṣajyā avalambakau ca atra || 2 ||

nyāsaḥ ā śaṅkuḥ 15, chāyā

6

1

4 |

āgatam svavṛttaviśkambhārdham

16

1

4 |

anena svavṛttaviśkambhārdhena āgatau akṣajyau alambakau 1322, 3174 |

uddeśakah ā

trimśat pramāṇaśaṅkoḥ śodaśa dṛṣṭā yadā aṅgulacchāyā |

madhyāt kiyat gataḥ arkaḥ vitatamayūkhah tataḥ vācyah || 3 ||

nyāsaḥ ā śaṅkuḥ 30, chāyā 16 | āgatam svavṛttaviśkambhārdham 34 | labdham

tadakṣajyā 1618

|| 14 ||

[pradīpacchāyākarma]

pradīpacchāyākarma āha ā

śaṅkuguṇam śaṅkubhujāvivaram śaṅkubhujayoh viśeṣahṛtam |

yat labdham tā chāyā jñeyā śaṅkoḥ svamūlāt hi || 15 ||

śaṅkuḥ gunaḥ yasya tat śaṅkuguṇam | kim tat iti āha ā śaṅkubhujāvivaram |
bhujāśabdena pradīpocchrāyaḥ ucyate, pradīpocchrāyasya śaṅkoḥ ca yat antarālam tat
śaṅkubhujāvivaram, tat śaṅkuguṇam | śaṅkubhujayoh viśeṣahṛtam śaṅkoḥ
pradīpocchrāyasya yaḥ viśeṣaḥ sa śaṅkubhujayoh viśeṣaḥ, tena hṛtam bhaktam | yat
labdham sā chāyā śaṅkoḥ tasya eva svamūlāt tasya eva śaṅkoḥ mūlāt sā chāyā
labhyate |

uddeśakah ā

yaṣṭipradīpamūlāt dvāsaptatyucchritāt aśītyām ca |
trimśatkādvimśatyām sthitasya śaṅkoḥ vada cchāye || 1 ||

nyāsaḥ ā

parilekhaḥ 37

śaṅkubhujāvivaram 80, etat śaṅkuguṇam 960; bhujā 72, śaṅkuḥ 12, etayoh viśeṣaḥ 60,
anena hṛtam śaṅkuguṇam śaṅkubhujāvivaram, labdhā chāyā 16 |

dvitīyoddeśakanyāsaḥ ā

parilekhaḥ 38

pūrvakaranena eva labdhā chāyā

13

5

3 |

etat karma trairāśikam | katham ? śaṅkutah adhikāyāḥ uparibhujāyāḥ yadi
śaṅkubhujāntarālapramāṇam chāyā labhyate tadā śaṅkunā kā iti chāyā labhyate |

viparītakarmaṇā uddeśakah ā

chāyā ṣoḍaśa dr̥ṣṭā dvāsaptatyuccritasya dīpasya |
mūlam kiyatā śaṅkoh dvādaśakasya tvayā vācyam || 2 ||

nyāsaḥ ā

parilekhaḥ 39

karaṇam ā śaṅkubhujāntareṇa anena 60 chāyā labdhā, tena "bhāgaharāḥ te bhavanti
guṇakārāḥ" [gaṇitaī, 28] iti chāyā 16, guṇitā jātā 960; etat eva "śaṅkuguṇam
śaṅkubhujāvivaram" atra api śaṅkuḥ guṇakāraḥ āśīt iti "guṇakārā bhāgaharā" [gaṇita ī,
28] iti śaṅkunā 12 hṛtam śaṅkubhujāvivaram labdham | tat ca 80 |

uddeśakah ā

yaṣṭipradīpamūlāt pañcāśadvivarasamsthitaḥ śaṅkuḥ |
tasya cchāyā pañktih vācyah tasmin kiyān dīpaḥ || 3 ||

nyāsaḥ ā

parilekhaḥ 40

karaṇam ā "śaṅkuguṇā koṭī sā chāyābhaktā bhujā bhavati" [gaṇitaī, 16] iti

vakṣyamāṇakaraṇena śaṅkubhujāvivarayuktacchāyā koṭih bhavati iti |
śaṅkubhujāvivaram 50, chāyā 10, ekatra 60, etat śaṅkuguṇam 720, chāyābhaktam
bhujāpramāṇam 72 || 15 ||
[śaṅkucchāyādvayena dīpocchrāyāpasārajanānam]

anirjñātadīpocchrāyāvasānayoḥ śaṅkucchāyādvayena ānayanam āha ā

chāyāguṇitam chāyāgravivaram ūnena bhājitat koṭī |
śaṅkuguṇā koṭī sāJchāyābhaktā bhujā bhavati || 13 ||

chāyāguṇitam chāyayā guṇitam | kim chāyāguṇitam ? chāyāgravivaram, chāyāgrayoḥ
vivaram chāyāgravivaram, chāyāgrāntarālabhūmīḥ iti arthaḥ | tat yathā ā
anirjñātocchrāyayaṣṭipradīpāt kiyat api apasṛtya śaṅkuḥ sthāpitah | tasya chāyā jñāyate
eva | tacchāyāgrāt parigaṇite antare dvitīyaśaṅkuḥ, tacchāyāgrāt
pūrvaśaṅkucchāyāgram iti antaram chāyāgravivaram | tadiṣṭayā prathamacchāyayā
dvitīyacchāyayā vā guṇitam | ūnena bhājitat, ūnam chāyayoḥ
viśeṣah, tena ūnena bhājitat | koṭī avasānabhūmīḥ | tat yadi prathamacchāyayā
guṇitam tadā prathamacchāyāgrayaṣṭipradīpāntarālam bhavati, dvitīyayā chāyayā yadi
tadagrayaṣṭipradīpāntarālam | śaṅkuguṇā koṭī, śaṅkuḥ gunah yasyāḥ sā iyam
śaṅkuguṇā koṭī | chāyābhaktā bhujā bhavati, bhujā yaṣṭipradīpocchrāyah |
chāyādvayam api tatkoṭibhyām prasādhyate |

uddeśakah ā

śaṅkoḥ samayoḥ dṛṣṭe kramaśah daśaśoḍaśāṅgule chāye |
agrāntaram ca dṛṣṭam trimśat koṭibhuje vācye || 1 ||

nyāsaḥ ă

parilekhaḥ 41

karaṇam ă chāyāgravivaram 30, etat prathamacchāyāguṇitam 300; chāyayoḥ viśeṣaḥ 6, anena labdham koṭī 50; iyam eva koṭī śaṅkugunā jātā 600, chāyābhaktā bhujā 60 | dvitīyacchāyātaḥ api koṭī 80, bhujā sā eva 60 |

uddeśakah ă

pañca sapta kramāt chāye narayoḥ tulyayoḥ smṛte |
aṣṭau agrāntaram drṣṭam bhujakoṭī tadā ucyatām || 2 ||

nyāsaḥ ă

parilekhaḥ 42

pūrvavat labdhā koṭī 20, bhujā 48 | dvitīyacchāyātaḥ api koṭī 28, bhujā sā eva 48 |

viśuvat ahani gaganatala[madhya]vartini savitari
samadakṣiṇottaradeśacchāyāgrāntarālayojanaiḥ chāyāviśeṣena śaṅkunā [ca] kecit
vivasvadavanitalāntarālayojanāni ānayanti, tat ayuktam | atra
pradīpacchāyādvayakarmālāpāvatāraḥ api na upapadyate | kutaḥ ? yasmāt āha
"bhūravivivaram vibhajet" [golaī, 39] iti | bhūḥ śaṅkuḥ, raviyojanakarṇaḥ
śaṅkubhujāvivaram, sakalajagadekapradīpaḥ bhagavān bhāskaraḥ svayam eva
pradīpocchrāyaḥ iti ataḥ
vivasvadavanitalāntarālayojanānayanam na ghaṭate, "bhūravivivaram" iti siddhānām

eva yojanānām upadeśāt | atha savitā eva pradīpocchrāyah iti
savitrīṣkambhapramāṇam ānīyate iti cet, tat ca na | yasmāt
svakakṣyākarṇabhūvivarayojanah gaganatalamadhyāsīnah lokān dyotayan laksyate,
tasmāt pradīpocchrāyah svayam savitā [na] bhavitum arhati | atha vivasvān
pradīpocchrāyah, savitṛdhariṭīmadhyāntarālayojanāni
aśeśāvanitalamandalavyāsapramāṇasya śaṅkoh
vivaram, tathā ca dvitīyasya tāvat śaṅkoh avasthānābhāvāt ca na yujyate | tasmāt
suṣṭhu uktam "pradīpacchāyā[dvaya]karmālāpāvatārah api na upapadyate " iti |

iyam ca dharitī golākārā paṭhyate | tena tatprṣṭhavartinām asmākam vakraṭvāt paridheḥ
śaṅkucchāyā bhujakoṭikarmaparikalpanā atra [na] pravartate, yataḥ salilasamīkṛte
pradeśe śaṅkucchāyayā bhujākoṭikarṇakṣetrasamsthānam, na ca etāvatyā bhuvaḥ
śakyate samīkaraṇam kartum | atha abhyupagamya idam udāhriyate ā viṣuvatī
ujjayinyām dinārdhavartinī uṣṇadīdhitau chāyā pañcāṅgulā | tayā akṣah labdhaḥ
bhāgāḥ dvāvīmśatih liptāḥ saptatrimśat
| anena akṣeṇa laṅkōjjayinyantarālayojanāni labdhāni saptāmbarayamasāṅkhyāni 207 |
tataḥ ujjayinyā uttareṇa viṣuvatī eva madhyāhnacchāyā sthāneśvare saptāṅgulā | tayā
ca akṣah labdhaḥ bhāgāḥ trimśat sapādāḥ | anena akṣeṇa
laṅkāsthāneśvarāntarālayojanāni labdhāni śarādriyamasāṅkhyāni 275 | atra eteśām
yojanānām višeṣah aṣṭaṣaṣṭih śaṅkudvayavivaram, chāyayoh antareṇa dvābhyām
yuktā aṣṭaṣaṣṭih, chāyāgravivaram saptatih | atra gaṇitakarma "chāyāguṇitam
chāyāgravivaram" iti ādikarmanā koṭiyojanāni labhyante | taiḥ ca dvitīyacchāyayā
nīyamānaiḥ laṅkāsthāneśvarāntarālayojanaiḥ eva bhavitavyam, yasmāt tasmin kāle
vivasvadadhovasthitaiḥ deśah laṅkā | yadi vivasvān bhujā yadi vā vivasvataḥ yaḥ
ucchrāyah, tasmāt koṭeh laṅkāsthāneśvarāntarālayojanasaṅkhyānatvāt gaṇitakarma
api atra na krāmati | atra ca yayā koṭyā bhujā sādhyate sā ca tāvat na siddhā, tayā
asiddhayā siddhabhujā sādhyate iti etat ayuktam | anyat

ca yat chāyā dvādaśāṅgulasya śaṅkoh pratyakṣam asmābhiḥ upalabdhā tayā
āṅgulapramāṇayā yojanaiḥ karma kriyate iti etat ca na upapadyate | atha
dvādaśayojanapramāṇasya śaṅkoh pañcayojanā saptayojanā ca chāyā iti etat api
tāvataḥ śaṅkoh lambakena r̥justhitih aśakyā jñātum, na ca utkṣepaṇasthāpane | chāyā
ca samāyāmavanau sādhyate tāvatsu yojaneṣu nimnonnatasarit iti ādiviṣamatā tena
tadavagatiḥ na śakyate | tasmāt yathā āgamasiddhau eva sahasramarīcēḥ
ucchrāyaviṣkambhau | tataḥ na atra iyam gaṇitaprakriyāprakāravāgurā prasāraṇīyā iti ||
16 ||

[bhujakotīkarṇānām sambandhah]

karṇānayanārtham āha ā

yaḥ ca eva bhujāvargah koṭivargah ca karṇavargah saḥ |

yaḥ ca bhujāvargah yaḥ ca koṭivargah etau vargau ekatra karṇavargah bhavati |

uddeśakah ā

tricatuṣkabhujākotyoh ṣaḍaṣṭasaṅkhyānayoh tayoḥ ca api |
dvādaśakanavakayoh ca krameṇa karṇāḥ vinirdeśyāḥ || 1 ||

nyāsaḥ ā

parilekhaḥ 43

karaṇam ā ete bhujākotī 3, 4; etayoḥ vargau 9, 16; ekatra karṇavargah 25, asya mūlam

karṇaḥ 5 | evam adhyardhāśrikṣetre āyatacaturaśrakṣetre vā karṇaḥ yojyāḥ | evam pariśiṣṭakṣetraḥ karṇau labdhau 10, 15 ||

[vṛtte ardhajyāśarayoḥ sambandhaḥ]

vṛttakṣetraḥ vagāḥajyānayanaāya āryāpaścārdham āha ā

vṛtte śarasamvargah ardhajyāvargah sa khalu dhanuṣoh || 17 ||

vṛtte kṣetre, śarayoḥ samvargah śarasamvargah, saḥ ardhajyāvargah bhavati | sa khalu dhanuṣoh, tayoḥ eva dhanuṣoh ardhajyāvargah bhavati |

uddeśakah ā

kṣetre daśāviṣkambhe dvikāṣṭasasaṅkhyau śarau mayā drṣṭau |
tatra eva navaikamitau ardhajye tu kramāt vācye || 1 ||

nyāsaḥ ā

parilekhaḥ 44

karaṇam ā etaū dvau śarau 2, 8 | etayoḥ samvargah ardhajyāvargah 16 | asya mūlam 4, iyam ardhajyā | dvitīyoddeśake api labdhā ardhajyā 3 |

atra eva śyenamūśikoddeśān vyāvarṇayanti | tat yathā ā ardhajyā bhujā,
ardhajyāmaṇḍalakendrāntarālam koṭih, tadvargayogamūlam karṇaḥ
maṇḍalavyāsārdham | tat tu pradarśyate ā

nyāsaḥ ā

parilekhaḥ 45

iyam ardhaṇyā śyenasthānocchrāyah, ardhaṇyāparidhyantarālam mūśikapracārabhūmih,
viṣkambhārdham karṇaḥ śyenamārgaḥ | maṇḍalakendram mūśikavadhapradeśaḥ | tatra
śyenasthānocchrāyah ardhaṇyā iti tadvaraḥ, mūśikapracārabhūmih śaraḥ iti tena
vibhajyate, labdham dvitīyah śaraḥ | tena "antarayuktam hīnam" [śloī 24] iti etam kṛtvā
labdham mūśikāvāsaprāpyabhūmih śyena[gati]karnapramāṇam ca | yaḥ eva dvitīyah
mahāśaraḥ sa eva vamśabhaṅgapade
ardhatryaśrīkṣetrākāreṇa vyavasthitah | tat ca pradarśitam | evam gaṇitam bījamātram
upadiṣṭam |

[uddeśakah] ā

dvādaśahastocchritasya prākārasya upari śyenaḥ vyavasthitah | tena prākāramūlāt
caturvimśatihastaniṣkrāntaḥ mūśikah [dṛṣṭaḥ, tena] mūśikena ca śyenaḥ | tatra mūśikah
tadbhayāt prākārāvasthitam ātmīyālayam drutataram prasthitah antare śyenena
karṇagatinā vyāpāditaḥ | tatra icchāmaḥ jñātum [ki]yat antaram ākhunā prāptam, kiyat
vā śyenena āyātam iti || 2 ||

nyāsaḥ ā

parilekhaḥ 46

karaṇam ā śyenocchrāyavargaḥ 144, etat anena mūśikapracārabhūmipramāṇena 24

vibhajya labdham 6, anena antareṇa mūśikapracārabhūmīḥ yuktā 30, apacitā 18 |
etayoḥ ardham śyenagatih mūśikāvāsāntarālam ca yathākrameṇa 15, 9.

uddeśakah ă

aṣṭādaśakocchrāye śyenah stambhe sthitah hi ākhuḥ |
āvāsāt niṣkrāntah tu ekāśītyā bhayāt śrayenāt ||
gacchan ālayadṛṣṭih krūreṇa nipātitah tataḥ mārgē |
kiyatā prāpnoti bilam śyenagatih vā tadā vācyam || 3 ||

nyāsaḥ ă

parilekhaḥ 47

labdham ākhoḥ āgatabhūmīḥ

8

1

2 ,

śyenagatih

42

1

2 .

anena eva prakāreṇa vamśabhaṅgoddeśakah ă

aṣṭādaśakocchrāyah vamśaḥ vātēna pātitah mūlāt |

śadgatvā asau patitah tribhujam kṛtvā kva bhagnah syāt || 4 ||

nyāsaḥ ā

vamśah 15, mūlāt yaḥ apasāraḥ tatpramāṇam ardhajyā 6, tasya vargaḥ 36,
vamśapramāṇena anena 18 bhaktah labdham 2, pūrvavat "antarayuktam hīnam
dalitam" [gaṇitaí 24] iti vamśaśakale 10, 8.

parilekhaḥ 48

uddeśakah ā

śodaśahastah vamśah pavanena nipātitah svamūlāt tat |
aṣṭau gatvā patitah kasmin bhagnah marutvataḥ vācyah || 5 ||

nyāsaḥ ā

parilekhaḥ 49

labdhe vamśaśakale 10, 6.

kamaloddeśakeśu drṣyakamalapramāṇam ekaḥ śarah | kamalanimajjanabhūmih
ardhajyā | atra pūrvavat ardhajyāvarge śarahṛte mahāśarah labhyate tatra
drṣyakamalasamkramāṇena jalapramāṇam kamalapramāṇam ca |

uddeśakah ā

kamalam jalāt pradr̄syam vikasitam aṣṭāṅgulam nivātena |
nītam majjati haste śīghram kamalāmbhasī vācye || 6 ||

nyāsaḥ ă

parilekhaḥ 50

dṛśyakamalasya [pramāṇam] 8, nimajjanabhūmiḥ 24 |

karaṇam ă ardhajyāyāḥ caturvimśateḥ vargaḥ 576, tat dṛśyakamalena aṣṭābhiḥ
bhāgalabdham 72 | etat dṛśyakamalayuktam 80, vihīnam ca 64 | ete dalite
kamalapramāṇam jalapramāṇam ca 40, 32 |

uddeśakah ă

aṅgulaṣaṭkam kamalam majjati hastadvayam gatam mūlāt |
icchāmi tatra boddhum pañkajam ambhaḥpramāṇam ca || 7 ||

nyāsaḥ ă

parilekhaḥ 51

dṛśyam 6, nimajjanabhūmiḥ 48 | labdham pūrvavat pañkajapramāṇam 195, ambhaḥ
pramāṇam 189.

matsyabakoddeśakeṣu api evam eva āyatacaturaśrakṣetrasya ekaḥ bāhuḥ ardhajyā,
bāhudvayam mahāśaraḥ, śeṣam mūṣikoddeśakavat karma |

uddeśakah ā

ṣaddvādaśikā vāpī tasyām pūrvottare sthitah matsyah |
vāyavye koṇe syāt bakah sthitah tadbhayāt tūrṇam ||
bhitvā vāpīm matsyah karṇena gatah diśam tatah yāmyām |
pārśvena āgatya hatah bakena vācyam tayoḥ yātam || 8 ||

nyāsaḥ ā

parilekhaḥ 52

bakamatsyakaraṇam ā vāpīpārśvam ardhajyā iti tasya vargaḥ 36, pārśvadvayam
mahāśarah iti jātam 18 | anena bhāgalabdhām 2 | etena aṣṭādaśabhiḥ samkramanena
labdhām matsyabakagatipramāṇam vāpīpārśvaśeṣaḥ ca 10, 8 | pārśvaśeṣe
pārśvapatite śeṣaḥ dakṣiṇāparakonaprāptih matsyasya |
uddeśakah ā

dvādaśadaśikā vāpī hi āgneyasthah bakah atha matsyah api |
aiśānyām aparāśāgatah hatah asau kiyat vācyam || 9 ||

nyāsaḥ ā

parilekhaḥ 53

pūrvavat labdhām dakṣiṇāparakonāt bakena gatam

3

3

11 |

paścimabāhoḥ anupraviṣṭamatsyagatih

8

8

11 |

vilomabījakaraṇena etat sarvam anuṣṭhitam |

pratyayakaraṇam ca sarveṣu eva kṣetreṣu "yah ca eva bhujāvargah koṭivargah ca
karṇavargah sah" [gaṇitaí, 17] iti anena eva iti || 17 ||

[vṛttāvagāhaśarajñānam]

vṛttāvagāhaśarānayanāya āha ā

grāsone dve vṛtte grāsaguṇe bhājayet pṛthaktvena |
grāsonayogalabdhu sampātaśarau parasparataḥ || 18 ||

grāsena ūne grāsone | ke ? dve vṛtte, grāhyagrāhakamaṇḍaladvayam | grāsaguṇe,
grāsaḥ gunaḥ yayoh te grāsaguṇe | bhājayet pṛthaktvena, ekaikam | kena ?
grāsonayogalabdhu | grāsonayoh yogaḥ grāsonayogaḥ, tayoḥ eva vṛttayoh
grāsavivarjityoh samāsaḥ ; tena grāsonayogena labdhau grāsonayogalabdhu |
sampāte śarau sampātaśarau, avagrāhaśarau iti yāvat | parasparataḥ, anyonyataḥ |
yasmāt mahāviṣkambhasya alpaḥ śaraḥ mahatvāt maṇḍalasya, alpavyāsasya
mahān śaraḥ | yasmāt alpasya maṇḍalasya alpaḥ api avayavaḥ ativakraḥ upalabhyate,
na tathā mahataḥ | tasmāt tau sampātaśarau parasparataḥ bhavataḥ |

uddeśakah ā

aśītiviskambhatamomayena dvātrimśat indoh sthagītā yadā aṣṭau |
jñātum tat icchāmi śarau kiyantau rāhoḥ atha indoh paripūrṇamūlaiḥ || 1 ||

nyāsaḥ ā

parilekhaḥ 54

karaṇam ā grāsone dve vṛtte 72, 24 | grāsaguṇe 576, 192 | grāsonayogaḥ 96 | anena
labdhau śarau candramasaḥ 6, rāhoḥ 2, parasparataḥ iti || 18 ||

[śreḍhīgaṇitam]

atha idānīm śreḍhīgaṇitānayanāya āha ā

iṣṭam vyekam dalitam sapūrvam uttaraguṇam samukham madhyam |
iṣṭaguṇitam iṣṭadhanam tu athavā ādyantam padārdhahatam || 19 ||

iṣṭam, īpsitam | vigatam ekena vyekam | dalitam, ardhitam | sapūrvam, iṣṭāt padāt yāni
prāgavasthitāni [padāni] tāni pūrvaśabdena ucyante, saha pūrvena vartate iti
sapūrvam | uttarah guṇah yasya taduttaraguṇam | samukham, mukhamādiḥ, saha
mukhena vartate iti samukham | madhyadhanam bhavati | iṣṭaguṇitam, iṣṭena gunitam
iṣṭaguṇitam | iṣṭadhanam, iṣṭasya gacchasya dhanam bhavati |

atra bahūni sūtrāṇi muktakavyavasthitāni, teṣām yathāsaṁyogam sambandhaḥ | "iṣṭam

vyekam dalitam uttaraguṇam samukham" iti madhyadhanānayanārtham sūtram |
"madhyam iṣṭagunītam iṣṭadhanam" iti gacchadhanānayanārtham | "iṣṭam vyekam
sapūrvam uttaraguṇam samukham" iti antyopāntyādīdhānānayanārtham | "iṣṭam
vyekam dalitam sapūrvam uttaraguṇam samukham iṣṭagunītam iṣṭadhanam" iti
avāntarayatheṣṭapadasaṅkhyānayanārtham | evam
etāni pādonayā āryayā pratibaddhāni | tāni yathākramena uddeśakeṣu eva
pratipādayiṣyāmah |

uddeśakah ā

ādiḥ dvitayam dṛṣṭam śreḍhyāḥ pravadanti ca uttaram trīṇi |
gacchaḥ pañca niruktaḥ madhyāśeṣe dhane brūhi || 1 ||

nyāsaḥ ā ādiḥ 2, uttaram 3, gacchaḥ 5 |

karaṇam ā iṣṭam gacchaḥ 5, vyekam 4, dalitam 2, uttaraguṇam 6, samukham 8, etat
madhyadhanam | etat eva iṣṭagacchena gunītam sarvadhanam jātam 40 |

uddeśakah ā

asṭāvādiḥ yasyāḥ pañca pravadanti ca uttaram śreḍhyāḥ |
gacchaḥ asṭādaśa dṛṣṭaḥ madhyāśeṣe dhane vācye || 2 ||

nyāsaḥ ā ādiḥ 8, uttaram 5, gacchaḥ 18 |

pūrvavat labdham madhyadhanam

1

2,

sarvadhanam 909 |

antyopāntyādidhanānayane uddeśakah ū

ekādaśottarāyāḥ saptādeḥ pañcavimśatiḥ gacchah |
tatra antyopāntyadhanānayane vada śīghram vimśateḥ ca kiyat || 3 ||

nyāsaḥ ū ādiḥ 7, uttaram 11, gacchah 25 |

karaṇam ū iṣṭam pañcavimśatiḥ 25, pūraṇam padam ekam iti ekam rūpam 1, etat eva
vyekam śūnyam 0, etat eva sapūrvam iti śūnyena kṣiptā caturvimśatiḥ 24, uttaraguṇam
264, samukham 271, etat antyadhanam | upāntyadhanānayane atra pūrvāṇi padāni
trayovimśatiḥ 23 | etaiḥ pūrvakaraṇena upāntyadhanam labdham 260 | vimśateḥ tu
pūrvapadāni ekonavimśatiḥ | etaiḥ pūrvavat vimśatitamasya padasya dhanam 216 |

avāntare yatheṣṭapadasaṅkhyādhanānayane uddeśakah ū

dvyādityuttarasaṅkhyam dine dine kārtike kramāt māse |
pradadāti mahīpālaḥ pañcadaśāhe gate vipraḥ ||
brahmaiṣṭhaḥ samprāptaḥ tasmai dattā daśāhadhanasaṅkhyā |
pañcadinotthā anyasmāi kathaya dhanam kim tayoḥ tatra || 4 ||

nyāsaḥ ū ādiḥ 2, uttaram 3, gacchah 30| atra pañcadaśāhe gate brahmaiṣṭhaḥ āgataḥ
tasmai ṣoḍaśāhāt prabhṛti yat upacitam daśāhadhanam tat dattam iti daśa 10 iṣṭam,
vyekam iti jātam 9, dalitam iti

4

1

2,

etat sapūrvam iti

19

1

2

uttaraguṇitam iti

58

1

2,

samukham iti

60

1

2,

iṣṭaguṇitam iṣṭadhanam iti daśaguṇitam jātam 605 | dvitīyasya api 415 |

uddeśakah ā

pañcadaśādiḥ yasmin uttaram aṣṭādaśa ucyate gacchah |

trimśat madhyadaśānām dhanasaṅkhyām gaṇyatām śīghram || 5 ||

nyāsaḥ ā

[ādiḥ] 15, uttaram 18, gacchah 30, daśasu vyatirikteṣu ca śeṣeṣu madhyasthitāni padāni 10 | labdham pūrvakaraṇena 2760 |

sarvadhanānayane upāyāntaram punar api āryāpādena āha ā

tu athavā ādyantam padārdhahatam |

athavā ayam aparaḥ prakāraḥ | ādiḥ ca antaḥ ca ādyantam | ādiśabdena ādidhanam parigṛhyate, antaśabdena antyadhanam | tat ādyantam | padam gacchāḥ, tasya ardham padārdham, padārdhena hatam padārdhahatam | tat ādyantam padārdhaguṇitam iṣṭadhanam iti anuvartanāt iṣṭadhanam bhavati |

uddeśakah ā

pañcabhiḥ ādyah śaṅkhaḥ pañconaśatena yaḥ bhavet antyam |
ekādaśaśaṅkhānām yat tat mūlyam tvam ācakṣva || 6 ||

nyāsaḥ ā

ādiśaṅkhamūlyam 5, antyasya 95, śaṅkhāḥ 11 |

karaṇam ā ādyantadhane 100, padārdham

5

1

2

anena guṇitam sarvaśaṅkhamūlyam 550 |

uddeśakah ā

ādidhanam ekam uktam hi antyadhanam procyate śatam sadbhiḥ |

padam api tāvat proktam sarvadhanam tat kiyat dr̥ṣṭam || 7 ||

nyāsaḥ ā

ādidehanam 1, antyadidehanam 100, gacchāḥ api etat eva 100 | sarvadhanam pūrvavat 5050 || 19 ||

[gacchajñānam]

gacchānayanārtham āha ā

gacchāḥ aṣṭottaraguṇitāt dviguṇādyuttaravīśeṣavargayutāt |
mūlam dviguṇādyūnam svottarabhajitam sarūpārdham || 20 ||

gacchāḥ iti anena [pa]dadhanam parighyate | aṣṭottaraguṇitāt aṣṭābhiḥ uttareṇa ca
guṇitam aṣṭottaraguṇitam | tasmāt aṣṭottaraguṇitāt | dviguṇādyuttaravīśeṣavargayutāt,
dviguṇāḥ ca asau ādiḥ ca dviguṇādiḥ, dviguṇādeḥ uttarasya ca viśeṣaḥ
dviguṇādyuttaravīśeṣaḥ, dviguṇādyuttaravīśeṣasya vargaḥ
dviguṇādyuttaravīśeṣavargāḥ, dviguṇādyuttaravīśeṣavargena yutam
dviguṇādyuttaravīśeṣavargayutam, tasmāt dviguṇādyuttaravīśeṣavargayutāt
gacchadhanāt

[sarvadhanāt] aṣṭottaraguṇitāt mūlam, dviguṇādyūnam dviguṇāḥ ca asau ādiḥ ca
dviguṇādiḥ, tena dviguṇādinā ūnam dviguṇādyūnam, svottareṇa bhajitam
svottarabhajitam, saha rūpeṇa vartate iti sarūpam, ardham dalitam, gacchāḥ bhavati |

uddeśakah ā

ādiḥ pañca proktah saptākhyam ca uttaram bhavet średhyā |
pañconaśatam dravyam gacchah vācyah kiyān tasya || 1 ||

nyāsaḥ ă

ādiḥ 5, uttaram 7, sarvadhanam 95 |

karaṇam ă gacchadhanāt aṣṭottaraguṇitāt iti gacchadhanam aṣṭābhiḥ uttareṇa ca
guṇitam jātam 5320 | dviguṇah ādiḥ 10, etat uttaraviśeṣitam 3, etasya vargaḥ 9, anena
yuktam jātam 5329, etasmāt mūlam 73, dviguṇādyūnam 63, svottareṇa anena 7
bhajitam 9, sarūpam 10, ardham gacchah 5 |

uddeśakah ă

navakāṣṭau vṛddhimukhe yatra yat kīrtyate dhanam kramaśah |
rāmāṣṭaśaram dṛṣṭam padapramāṇam tvayā vācyam || 2 ||

nyāsaḥ ă

ādiḥ 8, uttaram 9, gacchadhanam 583 | pūrvavat labdham padapramāṇam 11 || 20 ||

[citighanajñānam]

saṅkalanāsaṅkalanānayanāya āha ă
ekottarādyupaciteḥ gacchādyekottaratrīṣamvargah |
ṣaḍbhaktah sa citighanah saikapadaghanaḥ vimūlah vā || 20 ||

uttaram ca ādih ca uttarādī | ekam uttarādī yasyāḥ saikottarādih | ekottarādih ca asau
upacitih ca ekottarādyupacitih | upacitih śreḍhī ekottarāditvena viśeṣyate | sa eva
ekottarādyupacitih saṅkalanā iti ucyate | tasyāḥ ekottarādyupaciteḥ
saṅkalanāsaṁjñitāyāḥ gacchāt prabhṛti ekottaratrisaṁvargaḥ ekottarāṇām trayāṇām
gacchādēḥ saṁvargaḥ | tat yathā ā gacchāḥ, sa ekottaram, punar api ekottaram |
trayāṇām gacchādēḥ saṁvargaḥ | tat yathā ā gacchāḥ, sa ekottaram,
punar api ekottaram | etat uktam bhavati ā gacchāḥ, sa eva ekottaraḥ, sa eva gacchāḥ
dvyuttaraḥ, teṣām trayāṇām saṁvargaḥ, ṣadbhaktah ṣadbhīḥ vibhājitaḥ, sa citighanaḥ
citeḥ ghanah citighanaḥ saṅkalanāsaṅkalanā iti arthaḥ | atha anyaḥ karaṇopāyaḥ ā
saikapadaghanaḥ, saikam ca tatpadam ca saikapadam, saikapadasya ghanah
saikapadaghanaḥ, vigataḥ mūlena vimūlaḥ ṣadbhaktah iti anuvartate | vā saikasya
padasya ghanaganītam vā svamūlavirahitam ṣadbhīḥ bhaktam citighanaḥ
bhavati |

uddeśakah ā

pañcāṇām aṣṭāṇām caturdaśāṇām ca yāḥ kramāt citayaḥ |
gacchāḥ tarāḥ trikonā [rūpavidhānam ca] me vācyam || 1 ||

nyāsaḥ ā

parilekhaḥ 55

yathākramena gacchāḥ 5, 8, 14 |

karaṇam ā gacchāḥ pañca 5 | ayam ekottaraḥ 6 | punar ayam ekottaraḥ 7 | eteṣām
trayāṇām saṁvargaḥ 210 | ayam ṣadbhaktah saṅkalanāsaṅkalanā bhavati 35 |

dvitīyopāyakaraṇam ā saikapadam 6, asya ghanah 216, ayam vimūlah iti ṣadbhīḥ eva
rahitah 210, pūrvavat ṣadbhaktah saṅkalanāsaṅkalanā bhavati 35 |

śeṣayoh̄ api labdham yathākrameṇa 120, 560 || 21 ||

[vargacitighanah̄ ghanacitighanah̄ ca]

vargaghanasaṅkalanānayanāya āha ā

saikasagacchāpadānām kramāt trisamvargatasya ṣaṣṭhah̄ amśah̄ |
vargacitighanah̄ sa bhavet citavargah̄ ghanacitighanah̄ ca || 22 ||

saha ekena vartate iti saikaḥ | saha gacchena vartate iti sagacchah̄ | anantaraprakṛtaḥ
saikasagacchah̄ | padam gacchah̄ tatra saikam ca [saika] sagaccham ca padam ca
saikasagacchāpadāni | teṣām saikasagacchāpadānām kramāt ānupūrvyāt | trayāṇām
saṁvargitam trisamvargitam | keṣām trayāṇām ? prakṛtānām saikasagacchāpadānam |
ṣaṣṭhah̄ amśah̄ | tasya trisamvargitasya ṣaṣṭhah̄ amśah̄ ṣaṣṭhah̄ bhāgaḥ |
vargacitighanah̄ sa bhavet | vargasya citih̄ vargacitih̄ vargaciteḥ
ghanah̄ vargacitighanah̄ | vargasāṅkalanā iti arthah̄ | citivargah̄ ghanacitighanah̄ ca |
citeḥ vargah̄ saṅkalanāvargah̄ iti yāvat | sa eva citivargah̄ ghanacitighanah̄ bhavati |

uddeśakah̄ ā

saptānām aṣṭānām saptadaśānām caturbhujāḥ citayah̄ |
ekavidhānam vācyam padah̄ tarāḥ tāḥ hi vargākhyāḥ || 1 ||

nyāsaḥ ā

parilekhaḥ 56

karaṇam ā padam 7, saikam 8, etat eva sagaccham 15 | eteśām trayāṇām samvargaḥ 840, ṣaḍbhaktāḥ vargacitīghanapramāṇam 140 | śeṣayoḥ api yathākrameṇa labdham 204, 1785 |

ghanacitau uddeśakāḥ ā

caturaśraghanāḥ citayah pañcacaturnavastarāḥ vinirdeśyāḥ |
ekāvaghaṭitāḥ tāḥ samacaturaśreṣṭakāḥ kramaśāḥ || 2 ||

nyāsaḥ ā

parilekhaḥ 57

parilekhaḥ 58

karaṇam ā citisaṅkalanā | sā ca "athavā ādyantam padārdhahatam" [gaṇita ī, 29] iti anena ānīyate | atra ādiḥ ekaḥ 1, antyadhanam pañca 5, ekatra ṣaṭ 6, padārdhena pañcāṇām ardhena hatam saṅkalanācitiḥ pañcāṇām jātā 15, asya vargaḥ ghanacitīghanāḥ bhavati | sa ca 225 | śeṣayoḥ api yathākrameṇa labdham 100, 2025 || 22 ||

[prakārāntareṇa rāśidvayasamvargajñānam]

dvayoh rāsyoh samvargānayana upāyāntaram āha ā

samparkasya hi vargāt viśodhayet eva vargasamparkam |
yat tasya bhavati ardham vidyāt guṇakārasamvargam || 23 ||

samparkah samāsaḥ | yena dvayoh rāsyoh samparkah bhavati iti dvayoh eva
samparkah parigṛhyate | tasya samparkasya | hi pādapūraṇe | vargāt, kṛteḥ | viśodhayet
eva, apanayet eva | kim iti āha ā vargasamparkam | vargīkṛtayoh samparkah
vargasamparkah vargasamāsaḥ, tam vargasamparkam samparkasya vargāt viśodhayet
| yat tasya bhavati ardham, tasya śuddhaśeṣasya ardham dalam yat bhavati | vidyāt,
avabuddhyāt | guṇakārasamvargam, guṇakārayoh samvargah
guṇakārasamvargah, tam guṇakārasamvargam vidyāt |

uddeśakah ā

pañcānām ca caturṇām saptanavānām ca kaḥ bhavet ghātaḥ |
aṣṭānām ca daśānām pṛthak pṛthak vācyatām śīghram || 1 ||

nyāsaḥ ā

5 7 8

4 9 10

karaṇam ā pañcānām caturṇām ca samparkah 9, asya vargah 81; pañcānām vargah
25, caturṇām vargah 16, ekatra 41, samparkavargāt imam
pañcavargacaturvargasamparkam viśodhayet | tatra śeṣaḥ 40 | asya ardham pañcānām
caturṇām ca samvargah labdhaḥ 20 | śeṣayoḥ api yathākrameṇa 63, 80 || 23 ||

[guṇya-guṇakayoh ānayanam]

guṇakārayoh ānayanāya āha ā

dvikṛtiguṇāt saṃvargāt dvyantaravargeṇa samyutāt mūlam |
antarayuktam hīnam tat guṇakāradvayam dalitam || 24 ||

dvayoh kṛtiḥ dvikṛtiḥ, dvikṛtiḥ guṇah yasya sa dvikṛtiguṇah, tasmāt dvikṛtiguṇāt | kasmāt
iti āha ā saṃvargāt | dvyantaravargeṇa samyutāt | dvayoh api antaram dvyantaram,
dvyantarasya vargah dvyantaravargah, tena dvyantaravargeṇa samyutāt | dvikṛtiguṇāt
saṃvargāt dvayoh api antaravargeṇa miśritāt yat mūlam | tat antarayuktam antareṇa
yuktam antarayuktam | hīnam virahitam | tadguṇakāradvayam tasya saṃvargasya
guṇakāradvayam | dalitam ardhitam |

uddeśakah ā

saṃvargah aṣṭau drṣṭah vyaktam tatra antaram bhavet dvitayam |
aṣṭādaśake munayah guṇakārau tau tayoh vācyau || 1 ||

nyāsah ā saṃvargah 8, antaram 2 | saṃvargah 18, antaram 7 |

karaṇam ā saṃvargah 8, etat dvikṛtiguṇam 32; dvyantaram 2, asya vargah 4, anena
samyuktah 36 | asya mūlam 6, etat tena antareṇa yuktam 8, hīnam 4 | yathākramena
dalitau parasparaguṇakārau 4, 2 |

dvitīyoddeśake api guṇakārau labdhau 9, 2 |

atra guṇyaguṇakārayoh aviśeṣat guṇakāradvayam iti ucyate || 24 ||

[mūlaphalajñānam]

mūlaphalānayanārtham āha ā

mūlaphalam saphalam kālamūlaguṇam ardhamūlakṛtiyuktam |
tanmūlam mūlārdhonam kālahṛtam svamūlaphalam || 25 ||

mūlam śatādi, phalam vṛddhiḥ, mūlasya phalam mūlaphalam | saha phalena vartate iti
saphalam, ātmīyayā vṛddhyā yuktam mūlaphalam iti yāvat | kālamūlaguṇam, kālam ca
mūlam ca kālamūle, kālamūle guṇau yasya mūlaphalasya tat kālamūlaguṇam
mūlaphalam | ardhamūlakṛtiyuktam, [ardham mūlasya ardhamūlam mūlārdham iti,
ardhamūlasya kṛtiḥ ardhamūlakṛtiḥ, mūlakṛteḥ caturthaḥ bhāgaḥ iti], [ardha]kṛtitvāt
dvayoh vargeṇa iti caturvibhāgaḥ, tayā
ardhamūlakṛtyā yuktam ardhamūlakṛtiyuktam | tanmūlam, tasya eva niṣpāditasya
mūlam tanmūlam | mūlārdhonam, mūlasya śatādeḥ ardhena ūnam mūlārdhonam |
kālahṛtam, kālena hṛtam kālahṛtam | svamūlaphalam, svasya mūlasya phalam
svamūlaphalam |

uddeśakah ā

jānāmi śatasya phalam na ca kintu śatasya yatphalam saphalam |
māsaiḥ caturbhiḥ āptam ṣad vada vṛddhim śatasya māsothām || 1 ||

nyāsah ā

100 0

1 4

0 6

māsaḥ 4, phalam 6 |

karaṇam ā mūlaphalam saphalam 6, kālamūlaguṇam 2400 | ardhamūlakṛtiḥ 2500,
anayā yuktam 4900 | etasya mūlam 70, mūlārdhonam 20, kālahṛtam [sva]mūlaphalam
jātam 5 |

pratyayakaraṇam pañcarāśikena ā yadi śatasya māsikī vrddhiḥ pañca tadā caturbhiḥ
māsaiḥ śatavṛddheḥ [pañcadhanasya] kā vrddhiḥ iti |

nyāsaḥ ā

1 4

100 5

5 0

labdham 1 | etatsahitā śatavṛddhiḥ ṣaḍ rūpāṇi 6 |

uddeśakah ā

pañcavimśateḥ māsikī vrddhiḥ na jñāyate | yā pañcavimśateḥ māsikī vrddhiḥ sā tena
eva ardheṇa anyatra prayuktā, saha vrddhyā pañcabhiḥ māsaiḥ drṣṭā rūpatrayam
pañcabhāgonam | tatra icchāmaḥ jñātum kā pañcavimśateḥ māsikī vrddhiḥ, kā vā
pañcavimśatīva[r]ddheḥ pañcamāsaprayuktāyā vrddhiḥ iti || 2 ||

nyāsaḥ ā

25 0

1 5

0 2

4

5

labdham pūrvakaraṇena pañcavimśateḥ māsikī vṛddhiḥ 2, pañcavimśativṛddheḥ ca
pañcānām māsānām vṛddhiḥ

0

4

5 |

uddeśakah ā

śatasya māsikī vṛddhiḥ na jñāyate | kintu śatavṛddhiḥ anyatra prayuktā pañcabhiḥ
māsaiḥ saha vṛddhyā dṛṣṭā rūpapañcadaśakam | tatra icchāmaḥ jñātum kā ca śatasya
māsikī vṛddhiḥ kā vā śatasya vṛddheḥ pañcamāsapravuktāyā vṛddhiḥ iti || 3 ||

nyāsah ā

100 0

1 5

0 15

māsāḥ 5, saphalam 15 |

labdham ā pūrvavat śatavṛddhiḥ 10, śatavṛddheḥ pañcamāsapravogāt vṛddhiḥ 5 || 25 ||

[trairāśikam]

trairāśikapratipādanārthamadhyardhāryām āha ā

trairāśikaphalarāśim tam atha icchārāśinā hatam kṛtvā |
labdham pramāṇabhajitam tasmāt icchāphalam idam syāt || 26 ||
chedāḥ parasparahatāḥ bhavanti guṇakārabhāgahārāṇām |

trayah rāśayah samāhṛtāḥ trirāśih | trirāśih prayojanam asya gaṇitasya iti trairāśikah |
trairāśike phalarāśih trairāśikaphalarāśih | tam trairāśikaphalarāśim | athaśabdaḥ
parijñānavastuparigrahe uttaragranthapratipādane vartate | atra evamprakāraḥ arthaḥ
kah atra pratipāditaḥ ? ucyate ā paribhāṣā | sā ca lokavyavahārāt prativiṣayam bhinnā
iti lokaprayogāt eva pradarśitā | anyathā hi prativiṣayam bhinnāḥ paribhāṣāḥ viṣayāḥ ca
saṃkhyātītāḥ | tena upadeṣṭum
aśeṣataḥ sā na śakyate | atah athaśabdena lokaprasiddhām paribhāṣām pratipādayati |
icchārāśinā hatam kṛtvā, yaḥ asau phalarāśih sa icchārāśinā hataḥ kriyate, tam
icchārāśinā hatam guṇitam kṛtvā | labdham, labdham āptam | katham iti āha ā
pramāṇabhajitam, pramāṇarāśinā bhajitam pramāṇabhajitam | tasmāt evamvidhāt
rāśeh pramāṇabhajitāt | icchāphalam, icchāyāḥ phalam, icchāphalam, icchārāśiphalam
iti arthaḥ | idam iti labdham pratyakṣīkṛtya uktam |

atra trairāśikam eva kevalam abhihitam ācāryāryabhaṭena, pañcarāśikādayaḥ
anupātaviśeṣāḥ katham avagantavyāḥ ? ucyate ā anupātabījamātram eva ācāryeṇa
upadiṣṭam ; tena anupātabījena sarvam eva pañcarāśyādikam siddhyati | kutaḥ ?
pañcarāśikādīnām trairāśikasaṅghātavāt | kasmāt pañcarāśyādayaḥ
trairāśikasamḥatāḥ ? pañcarāśike trairāśikadvayam saṃhatam, saptarāśike
trairāśikatrayam, navarāśike trairāśikacatuṣṭayam iti ādi uddeśakesu

eva upadekṣyāmaḥ |

yadā punah rāśayaḥ sacchedāḥ syuḥ tadā katham kartavyam iti āha ā

chedāḥ parasparahatāḥ bhavanti guṇakārabhāgahārāṇām |

chedāḥ parasparasya hatāḥ anyonyahatāḥ | keśām iti atāḥ āha ā
guṇakārabhāgahārāṇām | guṇyaguṇakārayoḥ parasparāpekṣayā guṇakāratvam ,
yasmāt guṇyaḥ guṇakāreṇa guṇyate, guṇakāraḥ api guṇyena, na kaścit phalaviśeṣaḥ |
tena uktam guṇyaguṇakārau guṇakāraśabdena | guṇakārau ca bhāgahāraḥ ca
guṇakārabhāgahārāḥ | atāḥ teṣām guṇakārabhāgahārāṇām chekāḥ parasparahatāḥ ye
guṇakāracchedāḥ bhāgahārahatāḥ te bhāgahārāḥ bhavanti, bhāgahāracchedāḥ
ca guṇakārahatāḥ guṇakārāḥ bhavanti iti etat anuktam api avagamyate eva, yasmāt
taddharmāya chedāḥ parasparam nīyante | bhāgahārāṇām saṃvargah bhāgahāraḥ |
guṇakārāṇām saṃvargah guṇakāraḥ iti arthāt avagamyate |

uddeśakah ā

candanapalāni pañca kṛītāni mayā hi rūpakaiḥ navabhiḥ |

candanam ekena tadā labhyam [kim] rūpakeṇa eva || 1 ||

tatra yathākramenaḥ sthāpanā | uktam ca ā

ādyantayoḥ tu sadṛśau vijñeyau sthāpanāsu rāśīnām |

asadṛśarāśiḥ madhye trairāśikasādhanāya buddheḥ ||

iti |

nyāsaḥ ā 9 5 1

karaṇam ā rūpakaiḥ navabhiḥ pañcacandanapalāni iti nava pramāṇarāśiḥ, pañca
phalarāśiḥ | ekena rūpeṇa kim iti ekam icchārāśiḥ | tena ekena icchārāśinā phalarāśiḥ
guṇitah 5, pramāṇarāśinā navakena vibhajyate

5

9 |

tatra phaleṣu bhāgam na prayacchati iti "catuṣkarṣam palam" iti caturbhiḥ guṇitam
20

9 |

labdham karṣadvayam karṣabhāgau ca [navānām] | karṣab 2 karṣabhāgah

2

9 |

uddeśakah ā

ārdrakabhāraḥ daśabhiḥ sapañcabhāgaiḥ yadā abhivikṛtaḥ |
palaśatamūlyam śīghram sārdhapalasya atra me vācyam || 2 ||

nyāsaḥ ā

2000 10 100

1 1

5 2

savarṇite sthāpanā ā

2000 51 201

5 2

"chedāḥ parasparahatāḥ" iti guṇakārayoḥ chedāḥ bhāgahāram gatāḥ | 5, 2 etābhyaṁ chedābhyaṁ bhāgahāraḥ guṇitāḥ jātaḥ 20000 | [guṇakārayoḥ 201, 51 anayoḥ ghātaḥ] 10251 | pūrvavat labdham vimśopakāḥ 10, vimśopakabhāgāḥ ca 251
1000 |

uddeśakah ā

asṭābhiḥ satryamśaiḥ mṛganābhyā labhyate palam sadalam |
kṛtavīryeṇa vigaṇyam sapañcabhāgena kim mayā labhyam || 3 ||

nyāsaḥ ā

[8 1 1
1 1 1
3 2 5]

savarṇitena ā

[25 3 6
3 2 5]

[pūrvavat karaṇena] kṛtavīryalabdham mṛganābhyā māṣakāḥ 13, guñjāḥ 4,

guñjābhāgāḥ

3

25 |

uddeśakah ā

nāgah vimśatihastah praviśati ardhāṅgulam muhūrttena |
pratyeti ca pañcāṁśam katibhiḥ ahobhiḥ bilam prāptam || 4 ||

nyāsaḥ ā sarpah 480 aṅgulātmakah, praviśati ardhāṅgulam

1

2,

pratiyeti [ca aṅgulapañcabhāgah

1

5] |

atra pañcabhāgaviśuddham ardhāṅgulam sarpasya mauhūrttikī gatih iti pañcabhāgam
ardhāt viśodhya sthāpanā ā

9

10,

muhūrtaḥ 1, sarpapramāṇāṅgulāni 480 |

labdham divasāḥ

53

1

3

miśrarāśiṣu api etat eva anupātabījam | tat yathā ā

uddeśakah ā

aṣṭau dāntāḥ trayah̄ damyāḥ iti gāvah̄ prakīrtitāḥ |
ekāgrasya sahasrasya kati dāntāḥ kati itare || 5 ||

nyāsaḥ ā aṣṭau dantāḥ 8, trayah̄ damyāḥ 3, dantadamyānām ekottaram sahasram 1001
|

atra ayam traīrāśikanyāsaḥ ā

dāntadamyāḥ 11, dāntāḥ 8, sarvasamudāyaḥ 1001 |

atra iyam vācaḥ yuktih̄ ā ekādaśabhiḥ dāntadamyaiḥ aṣṭau dāntāḥ labhyante, tat
ekāgreṇa sahasreṇa kiyantāḥ dāntāḥ iti labdhāḥ dāntāḥ 728 tathā eva damyāḥ 273 |

evam prakṣepakaraneṣu api uddeśakah ā

samavāyakāḥ tu vanijah̄ pañcaikaikottarādimūladhanāḥ |
lābhaḥ sahasrasamkhyah̄ vada kasmai tatra kim deyam || 6 ||

nyāsaḥ ā dhanāni 1, 2, 3, 4, 5 | lābhaḥ sahasram 1000 |

karaṇam ā prakṣepakadhanena anena 15, ayam lābhaḥ 1000 | yathākrameṇa ekena
dvābhyām iti ādi labdhāḥ lābhāḥ [prathamasya]

66

2

3,

dvitīyasya

133

1

3,

trtīyasya 200, *caturthasya*

266

2

3,

pañcamasya

333

1

3 |

bhinne api uddeśakah ā

ardhena trtīyena prakṣepena aṣṭamena ye vanijah |
saptatiḥ ekena ūnā lābhah teṣām kiyān kasya || 7 ||

nyāsah ā

1 1 1 | lābhah 69 |

2 3 8

atra bhinnagaṇitanyāyena "chedaguṇah sacchedam" iti savarṇite jātāḥ

12 8 9

24 24 24 | chedaiḥ prayojanam na asti iti amśāḥ kevalāḥ 12, 8, 3 | eteśām pūrvavat
prakṣepanyāyena ekatra [yogah] 23 | anena prakṣepena asya lābhasya 69 bhāgah
svāmśaiḥ pṛthak pṛthak gunitasya trairāśikavibhāgena labdhāḥ bhāgāḥ 36, 24, 9 |

[pañcarāśikam]

pañcarāśike uddeśakah ā

śatavṛddhiḥ māse syāt pañca kiyān māsaśatprayuktāyāḥ |
vṛddhim vada viṁśatyā yadi bhaṭagāṇitam tvayā buddham || 8 ||

nyāsaḥ ā 1001 20

1 6

5

karaṇam ā prathamatrairāśikam 100, 5, 20 | labdham rūpakah 1 | dvitīyatrairāśikam ā
yadi māsenā rūpakah, ṣadbhīḥ kiyantah iti labdham rūpakah ṣaṭ |

etat eva gaṇitam yugapat kriyamāṇam pañcarāśikam bhavati | tatra api śatasya māse iti
[śatam rūpam ca] pramāṇarāśidvayam, pañca iti phalarāśīḥ viṁśatyā ṣadbhīḥ māsaiḥ
kim iti viṁśatih ṣaṭ ca icchārāśīḥ | tatra pūrvavat eva icchārāśīḥ phalarāśinā gunitah
pramāṇarāśibhyām vibhajyate, phalam pūrvavat eva | trairāśikam eva etat dvidhā
vyavasthitam | chedāḥ api pūrvavat gunakārabhāgahārāṇām parasparam gacchanti |

[uddeśakah] ā

[śatasya māsadvaya]prayuktasya vṛddhiḥ paynnca | pañcavimśateḥ

pañcamāsaprayuktāyāḥ kā vṛddhiḥ iti || 9 ||

nyāsaḥ ā 100 25 labdham 3

2 5 1

5 8

uddeśakah ā

[śatasya ardhacatuṣka]māsaprayuktasya vṛddhiḥ ardhapañcakāḥ rūpakāḥ | tadā pañcāśataḥ daśamāsaprayuktasya kā vṛddhiḥ iti || 10 ||

nyāsaḥ ā 100 50

3 10

1

2

4

1

2

labdham rūpakāḥ ṣaṭ 6, saptabhāgāḥ trayāḥ ca

3

7 |

uddeśakah ā

vimśatyāḥ sārdhāyāḥ satryamśaḥ rūpakaḥ bhavet vṛddhiḥ |

māse sapañcabhāge pādonānām tu saptānām ||

māsaiḥ ṣaḍbhiḥ vācyam daśabhāgayutaiḥ tu kā bhavet vṛddhiḥ |

jñātvā chedavikalpam samyak bhaṭatantrasūtreṇa || 11 ||

savarṇite sthāpanā ā

41 27

2 4

6 61

5 10

4 0

3

labdham rūpakadvayam [2, vimśopakāḥ] 4, vimśopakabhāgāḥ ca

26

41 |

[saptarāśikam]

saptarāśike uddeśakāḥ ā

saptocchritasya kariṇāḥ trimśat paridheḥ navāyatasya yadā |

nava kuḍuvāḥ labhyante nityam samśuddhaśāliप्रथुकानाम् ||

pañcocchritasya vācyam saptāyām asya dantināḥ kim syāt |

asṭāvimśatiparidheḥ vācyāḥ प्रथुकाः tadā labhyāḥ || 12 ||

sthāpanā ā 7 5

30 28

9 7

9 0

labdham pr̥thukakuḍuvāḥ 4, setike 2, setikabhāgāḥ

2

3

uddeśakah ā

hastyuttamasya caturhastocchritasya ṣaḍāyatasya pañcapariṇāhasya ardhatr̥tiyāḥ
kuḍuvāḥ labhyante māśānām yadā tadā tryucchritasya pañcāyatasya
ardhapañcamapariṇāhasya kim labhyam || 13 ||

nyāsaḥ ā 4 3

6 5

5 9

2

5 0

2

labdham kuḍuvah 1, setikā 1, mānakau 2, ardhamānakam

1

2 |

evam navarāsyādiṣu yojyāḥ |

[vyastatraināśikam]

vyastatraināśikam api etat eva | tatra guṇakārabhāgahāraviparyāse viśeṣaḥ | tat yathā ā

[uddeśakah]

pañcasauvarṇike pale dr̥ṣṭāni śoḍāśā palāni suvarṇasya yadā tadā catussauvarṇike
kiyanti iti || 14 ||

nyāsaḥ ā 5 16 4

atra pañcasauvarṇikena palena śoḍāśa palāni iti pañcabhiḥ śoḍāśa guṇitāḥ suvarṇāḥ
bhavanti | ete suvarṇāḥ caturbhiḥ hr̥tāḥ catussauvarṇikapalāni bhavanti | evam labdhāni
palāni 20 |

svasiddhānte ca yadi vyāsārdhamāṇḍale bhujāphalam idam labhyate tadā
tatkālotpannakarṇaviśkambhārdhamāṇḍale kim iti tatra mahati karṇapramāṇe
alpiyasyaḥ [bhujāphalakalā] bhavanti, alpakarṇe vahvyāḥ iti vyāsārdham guṇakāraḥ [
karṇaḥ bhāgahāraḥ] |

uddeśakah ā

aṣṭau piṭakāḥ dr̥ṣṭāḥ caturdaśaprasṛtikena mānena |
aṣṭaprasṛtikamāne piṭakāḥ ke syuḥ tadā vācyāḥ || 15 ||

nyāsaḥ ā 8 14 8

labdham piṭakāḥ 14 || 26-27 ||

[kalāsavarṇanam]

kalāsavarṇoddeśapradarśanārtham āryāpaścārdham āha ā

chedaguṇam sacchedam parasparam tat savarṇatvam || 27 ||

saha chedena vartate iti sacchedam | kim tat ? rāśirūpam | atra sacchedam rāśirūpam vinyasya etat ucyate ā "chedaguṇam sacchedam parasparam" iti | chedah gunah yasya rāśirūpasya tadrāśirūpam chedaguṇam | parasparam anyonyam, ekena rāśicchedena itarah rāśih sacchedah gunyate, itareṇa api itarah [rāśih tadvat vinyastah] | tat savarṇatvam, tat eva nirvartitam karma savarṇatvam | savarṇakayoh yathā iṣṭam samyogah viśleṣah ca |

uddeśakah ā

ardham ṣaṣṭham dvādaśabhāgam caturthabhāgasamyuktam |
ekatra kiyat dravyam nirdeśyam tatkramena eva || 1 ||

nyāsaḥ ā 1 1 1 1

2 6 12 4

karaṇam ā dvayoh

1 1

2 6,

etau parasparacchedena gunitau sacchedau rāśī

6 2

12 12 |

ekatra

2

3 |

punar tṛtīyarāśinā sthāpanā

2 1

3 12,

prakṣiptena

[3]

[4] |

evam caturtharāśinā

3 1

4 4, labdham rūpakam 1 |

uddeśakah ū

ardham ṣaṣṭham bhāgam tṛtīyakena sahitam kiyat dravyam |

ardham ṣaṣṭhah dvādaśakah viṁśah sapañcabhāgah ca || 2 ||

nyāsaḥ ū 1 1 1

2 6 3

dvitīyoddeśake sthāpanā ū

1 1 1 1 1

2 6 12 20 5

labdham pūrvakaraṇena ubhayatraikarāśikam rūpam 1, 1 |

uddeśakah ū

ardham ṣadbhāgonam pañcāṁśam ca api saptabhāgonam |
tryamśam pādonam vā gaṇayate [gaṇakāḥ] kiyat dravyam || 3 ||

nyāsaḥ ā 1 1í 1 1í 11í

2 6 5 734

labdham yathākrameṇa ā1 2 1

3 3512

[viparītakarma]

pratigomakaraṇapradarśanārtham āha ā

guṇakārāḥ bhāgaharāḥ bhāgaharāḥ te bhavanti guṇakārāḥ |
yah kṣepaḥ saḥ apacayaḥ apacayaḥ kṣepaḥ ca viparīte || 28 ||

guṇakārāḥ bhāgaharāḥ, ye guṇakārāḥ āsan te pratigomakramanī [bhāgahārāḥ bhavanti]
| bhāgaharāḥ te bhavanti guṇakārāḥ, [ye] bhāgahārāḥ te guṇakārāḥ bhavanti | yah
kṣepaḥ saḥ apacayaḥ, pūrvam yah kṣepaḥ āśīt sa vilomakramanī apacayaḥ bhavati |
apacayaḥ kṣepaḥ ca, yah apacayaḥ sa kṣepaḥ viparītakramanī bhavati |

atra ye uddeśakāḥ te prāyaśaḥ pradarśitāḥ | svatantra api ca chāyānītaśaṅkoh
ghaṭikānayanam prati vyāsārdham bhāgahāraḥ āśīt iti guṇakāraḥ, lambakah guṇakāraḥ
āśīt iti bhāgahāraḥ | tatra uttaragole [ksitijyā kṣipe] dityapanīyate, dakṣināgole apanayet
iti prakṣipyate | tataḥ viparītavat̄ eva vyāsārdham guṇakāraḥ, svāhorātrārdham
bhāgahāraḥ | labdhajyā viparītakramanā eva kāṣṭhīkriyate | tasmin kāṣṭhe uttaragole
caraprāṇāḥ prakṣipyante viśodhitavat̄,

dakṣiṇagole viśodhyante kṣiptatvāt iti ādi | evam sarvatra svatantra viparītakarma
niyojyam |

anyatra api uddeśakah ā

dviguṇam rūpasametam pañcavibhaktam tritāḍitam bhūyah |
dvyūnam saptavibhaktam labdham rūpam kiyat bhavet pūrvam || 1 ||

nyāsah ā 2 gu, 1 kṣe, 5 hā, 3 gu, 2 ū, 7 hā, saptabhiḥ bhāgalabdhām rūpakam 1 |

karaṇam etat ā labdham rūpam 1, saptabhiḥ guṇitam jātam 7, dvābhyaṁ yuktam 9,
tribhiḥ bhaktam 3, pañcaguṇam 15, ekonam 14, dalitam labdham 7 |

uddeśakah ā

triguṇam rūpavīhīnam dalitam dvābhyaṁ samanvitam bhūyah |
bhaktam tribhiḥ tu tasmāt dvīkahīnam kim bhavet rūpam || 2 ||

nyāsah ā 3 gu, 1 ū, 2 hā, 2 kṣe, 3 hā, 2 ū, labdham rūpam 1 | pūrvavat āgatam 5 || 25 ||

[anekavarṇasamīkaraṇaviśeṣah]

rāśyūnakramasaṅkalitānayanam āha ā

rāśyūnam rāśyūnam gacchadhanam piṇḍitam pṛthaktvena |
vyekena padena hṛtam sarvadhanam tat bhavati evam || 29 ||

rāśinā ūnam rāśyunam | [rāśyūnam] rāśyūnam iti anayā vīpsayā anantyam
gaṇitakarma pradarśayati | gacchah padam paryavasānam iti paryāyāḥ | gacchasya
dhanam gacchadhanam, padadhanam | rāśyūnanyāyena yāvat padam tat
gacchadhanam ucyate | piṇḍitam pṛthaktvena | piṇḍitam ekatra kṛtam | pṛthaktvena iti
rāśyūnakramalabdhapadānām avinaṣṭasthāpanām pradarśayati |
avinaṣṭasthāpanāpryojanam ca sarvadhanam ca sarvadhanāt
avinaṣṭasthāpitapadadhane
apanīte pṛthak pṛthak padānām dhanāni bhavanti | yadi kevalam
sarvadhanaparijñānamātram eva syāt tadā pṛ(tha)ktvena iti anarthakam syāt, yasmāt
apṛthakkaraṇe api sarvadhanasya siddhatvāt | vigatam ekam vyekam, tena vyekena,
tena padena ca | vyekaiḥ padaiḥ iti bahuvacanena atra bhavitavyam | na eṣah doṣah |
padajātim aṅgīkṛtya "jātyākhyāyām ekasmin bahuvacanam anyatarasyāt" [aṣṭādhyāyī,
1.2.58] iti ekavacanam kṛtam | tena yaḥ arthaḥ vyekaiḥ padaiḥ iti
sa eva arthaḥ vyekena padena iti avagamyate | hṛtam bhaktam | sarvadhanam,
sarveṣām padānām yathākrameṇa dhanam ekatra tat sarvadhanam ucyate | tat bhavati
evam, yat evam kṛte karmaṇi tat sarvadhanam bhavati |

uddeśakah ā

mattāmattakareṇuvikkaracitā yūthā gajānām vane
ekāpāyacayena [ye atra] gaṇitāḥ trimśat rasānām kṛtiḥ |
saptānām api sā eva ca ekasahitā nāgāgram āgaṇyatām
yūthānām ca pṛthak pṛthaktvagaṇitam nirvarṇyatām tattvataḥ || 1 ||

nyāsaḥ ā 30, 36, 49, 50 |

karaṇam ā etāni dhanāni avinaṣṭāni ekatra 165 | vyekam padam 3 | anena labdham

sarvadhanam 55 | etasmāt prathamapadam apāsyā mattāgram 25, dvitīyam apāsyā amattasaṅkhyā 19, tritīyam apāsyā kareṇusaṅkhyā 6, caturtham apāsyā vikkasaṅkhyā 5 |

uddeśakah ā

nāgāḥ vājakharoṣṭravesaragavām ekaikahīnāḥ kramāt
aṣṭāvimiṣatih ekaḥīnagaṇitā rūponam antyam punar |
teṣām sarvadhanam pṛthak ca niyamāt vācyam tvayā niścitam
kṛtsnam ca āryabhaṭapraṇītagaṇitam dr̥ṣṭam guroḥ antike || 2 ||

nyāsaḥ ā 28, 27, 26, 25, 24, 23, 21 | labdham sarvadhanam 29 | pṛthak pṛthak 1, 2, 3, 4, 5, 6, 8 || 29 ||

[ekavarṇasamīkaraṇam]

samakaraṇoddeśakapradarśanārtham āha ā

gulikāntareṇa vibhajet dvayoh puruṣayoh tu rūpakavišeṣam |
labdham gulikāmūlyam yadi arthakṛtam bhavati tulyam || 30 ||

gulikāśabdena avijñātamūlyavastvabhidhīyate | gulikānām antaram gulikāntaram tena
gulikāntareṇa, avijñātamūlyavastūnām antareṇa iti arthaḥ | vibhajet dvayoh puruṣayoh
tu rūpakavišeṣam | dvayoh iti anena dvayoh eva idam karma na tryādīnām iti etat
pradarśayati | rūpakavišeṣam iti anena ca nirjñātasaṅkhyam dhanam parigṛhyate |
rūpakam dīnārādikam | labdham gulikāmūlyam, yat atra labdham tat gulikāmūlyam |
yadi arthakṛtam bhavati tulyam, yena

arthena kṛtam tat tulyam sadṛśam bhavati |

uddeśakah ā

aśvāḥ lakṣaṇayuktāḥ vanijah nityam balānvitāḥ sapta |
prathamasya mayā dṛṣṭam dravyaśatam ca eva hastagatam ||
nava turagāḥ nirdṛṣṭāḥ dravyāśītih dhanam dvitīyasya |
vācyam ghoṭakamūlyam tulyārdheṇa eva tulyadhanau || 1 ||

nyāsaḥ ā 7 100

9 80

karaṇam ā gulikāntaram 2, rūpakaviśeṣam 20, etat gulikāntareṇa vibhaktam ghoṭakasya
ekasya mūlyadravyam daśa 10 | anena ardheṇa prathamasya ghoṭakānām mūlyam 70,
dvitīyasya 90, [sva]svahastagatena anena [ca] gatau tulyadhanau 170 ubhayoh api |

uddeśakah ā

kuṇkumapalāni ca aṣṭau ekasya dhanasya rūpakā navatih |
dvādaśa palāni vidyāt anyasya dhanasya rūpakāḥ trimśat ||
tulyārdheṇa ca kṛtam kuṇkumam dvābhyām kiyat palārdheṇa |
icchāmi tatra boddhum mūlyam vittam ca tulyam eva tayoh || 2 ||

nyāsaḥ ā 8 90

12 30

labdham pūrvavat kuṇkumapalasya ekasya mūlyam 15 | tulyadhanam 210 ubhayoh |

ete eva gulikāḥ ajñātапramāṇāḥ yāvat tāvantah ucyante, rūpakāḥ eva tatra api | yāvat tāvat samjñayā api uddeśakāḥ abhidhīyante | tat yathā ā

[uddeśakah]

sapta yāvat tāvat sapta ca rūpakāḥ samāḥ dvayoh yāvat tāvatoḥ dvādaśānām [ca] rūpakāṇām, kiyantah yāvat tāvat pramāṇāḥ || 3 ||

nyāsaḥ ā 7 7

2 12

karaṇam ā pūrvavat gulikānām yāvat tāvatām viśeṣah upari śuddhe 5 | adhaḥ śuddhe rūpakaviśeṣah 5 | yāvat tāvat viśeṣena rūpakaviśeṣasya bhāgalabdham yāvat tāvat pramāṇam 1 | etena yāvat tāvat pramāṇena yāvat tāvantah gulikāḥ jātāḥ krameṇa 7, 2; svān svān rūpān prakṣipya samāḥ | prathamasya 14, dvitīyasya tat eva 14 |

uddeśakah ā

nava gulikāḥ sapta [ca] rūpakāḥ samāḥ trayāṇām [tu] gulikānām | trayodaśānām ca rūpakāṇām tadā kim gulikāmūlyam || 4 ||

nyāsaḥ ā 9 7

3 13

labdham gulikāmūlyam 1 |

yadā punar rūpakāḥ śodhyāḥ bhavanti tadā ā

uddeśakah ā

nava gulikāḥ rūpakāḥ caturvīṁśatiḥ ṛṇam dve gulike [ca] |
aṣṭādaśa rūpakāḥ samāḥ [kathaya] kim gulikāṁūlyam || 5 ||

nyāsaḥ ā 9 24

2 18

atra gulikāḥ upari śuddhyante, rūpakāḥ adhāḥ śodhyāḥ na śuddhyanti | tataḥ ā

sojjham bhūṇāradhaṇam aṇam aṇado nayamado nayamado sojjham |
viparīte sādhaṇae sojjham vā kim va guholam ||

atra gulikāḥ upari śodhyāḥ gulikābhyaḥ śuddhyante; adhāḥśodhyāḥ rūpakāḥ na,
śodhyatvāt ca viparītam prakṣipyante | prakṣipte sati jātāḥ 42 | gulikāviśeṣaiḥ saptabhiḥ
bhāgalabdhām ṣaṭ 6 | [prathamasya yāvat tā]vat pramāṇam 9, ṣaḍguṇītam 54,
ṛṇagatarūpakāḥ caturvīṁśatiḥ śuddhāḥ śeṣam trimśat 30 | [dvitīyasya] dve gulike
ṣaḍbhiḥ gunite 12, aṣṭādaśayukte 30 | evam samadhanāḥ |

samakaraneṣu [evam] sarvatra yojyam || 30 ||

[yogakālajñanam]

yogakālānayanārtham āha ā

bhakte vilomavivare gatiyogena anulomavivare dvau |

gatyantareṇa labdhau dviyogakālau atītaiṣyau || 31 ||

bhakte, hṛte | vilomavivare, ekaḥ gacchatī aparaḥ tatpratimukham pratyāgacchatī tat
vilomavivaram, anulomagatēḥ vilomagatēḥ ca antaram iti | atra anulomaśabdāḥ
luptanirdiṣṭāḥ pratyetavyaḥ | athavā vilomavivaram evaṃprakāram eva parigṛhyate, yadi
dvau api vilomagatī syātām, tadā anulomavivaram eva syāt | tasmin vilomavivare
bhakte | kena iti āha ā gatiyogena | gatyoh yogaḥ gatiyogaḥ, tena gatiyogena |
anulomavivare, anulomagatyoḥ vivaram anulomavivaram
| dvau iti dvayoh pratiłomānulomayogakālayoh param amśam karoti | gatyantareṇa,
gatyoh antaram [gatyantaram] gativiśeṣaḥ, tena gatyantareṇa | labdhau dviyogakālau,
dvayoh yogaḥ dviyogaḥ, dviyogasya kālau dviyogakālau | atītaiṣyau atītaḥ ca eṣyāḥ ca
atītaiṣyau | atītaḥ atikrāntaḥ, eṣyāḥ bhāvi | tat yathā ā yadā ekaḥ grahaḥ purastāt sthitāḥ
vakrī, [anyāḥ] paścāt avasthitāḥ cāreṇa gacchatī, tayoḥ antarālaliptā vilomavivaram |
tatra ekasya anulomacāriṇaḥ, aparasya pratiłomam
āgacchataḥ alpena kālena yogaḥ bhaviṣyati iti tayoḥ bhuktiyogena bhāgaḥ hriyate,
yasmāt tāvān eva tayoḥ āhnikaḥ bhogaḥ | tena traīrāśikam kriyate ā yadi anena
āhnikenā bhogena ekaḥ divasaḥ labhyate, tadā anena vilomavivareṇa kim iti | divasā
ghaṭikā vā labhyante | tāvān kālaḥ atikrānte yoge atītaḥ, bhāvini yoge eṣyāḥ | tatra
samaliptāvidhānam bhuktyā traīrāśikam ā yadi ṣaṣṭyā ghaṭikābhiḥ grahasphuṭagatih
labhyate, tadā vilomotpannaghaṭikābhiḥ kā bhuktih iti
labdham anulomagatau grahe prakṣipate vilomagatēḥ apanīyate | evam tau
samaliptau grahāviṣṭakālasambhavau bhavataḥ | atha vakragatih paścāt avatiṣṭhate,
purastāt anulomagatih tadā labdham phalam vakragatau prakṣipate atikrāntatvāt,
anulomagatih viśodhyate atikrāntatvāt eva | yadā punar anulomagatī etau bhavataḥ
tadā bhuktiviśeṣeṇa anulomavivarasya bhāgaḥ, yasmāt bhuktiviśeṣatulyam āhnikam
gatyantaram tayoḥ | tataḥ anena gatyantareṇa bhuktiviśeṣeṇa
janitena ṣaṣṭih nāḍyaḥ upalabhyante tadā anulomavivareṇa kim iti ghaṭikāḥ labhyante |

tābhiḥ ca grahasphuṭabhuktyā saha traīrāśikam ā yadi ṣaṣṭyā sphuṭabhuktih labhyate,
ābhiḥ ghaṭikābhiḥ kim iti | labdham śīghragatau paścāt vyavasthite ubhayam ubhayatra
svam svam prakṣipyate | śīghragatau puraḥsthite tat ubhayam ubhayasmāt apanīyate |
evam dviyogakālau atītaiṣyau bhavataḥ | yadā ca dvau api vakragatī bhavataḥ tadā api
evam eva karma | idam eva karma
asmābhiḥ karmanibandhe uktam ā

grahayoh antaram bhājyam pratiломānulomayoh |
bhuktiyogena vā anyatra bhogaviśleṣasaṅkhyayā ||
dinādih labhyate kālah yoginām yogakārakah |
bhukteḥ anekarūpatvāt sthūlah kālah sa gamyate ||
samaliptāvataḥ yuktyā kuryāt tantrasya veditā |
sopadeśāt guroḥ nityam abhyāsāt vā avagamyate ||
[mahābhāskarīyam, 6.49-51]

iti |

sūryācandramasoh api ā

gantavyayātatithiśeṣahate ravīndroḥ bhuktī krameṇa dinabhuktiviśeṣabhakte |
labdhena yuktarahitau śaśitigmaraśmī jñeyau samau sakalalokavidhānahetū ||
[mahābhāskarīyam, 4.64]

laukikaganite api uddeśakah ā

sārdham yojanam ekaḥ valabhītah yāti asau dinena eva |
āgacchati harukacchāt pādayutam yojanam hi aparah ||

antaram anayoh drṣṭam tu aṣṭādaśa yojanāni pathikena |
vācyam yogaḥ kiyatā kālena abhūt tayoḥ gaṇaka || 1 ||

nyāsaḥ ā valabhīprasthitasya [gatiḥ]

3

2,

harukacchāt āgacchataḥ [gatiḥ]

5

4,

tayoḥ vilomavivaram 18 |

karaṇam ā anayoh gatiyogaḥ

11

4 |

anena vilomavivarasya bhāgalabdhām divasāḥ 6, divasabhāgāḥ ca

6

11 |

anulomavivaroddeśakāḥ ā

valabhītaḥ yāti narah gaṅgām divasena yojanam sārdham |
aparah tribhāgahīnam śivabhāgapurāt tadā yāti |
aṣṭau triguṇāni tayoḥ antaram uktam ca yojanāni budhaiḥ |
ekena pathā yātau kiyatā kālena samyuktau || 2 ||

nyāsaḥ ā valabhīprasthitasya gatiḥ

3

2,
śivabhāgapuraprasthitasya gatiḥ
2
3,
anulomavivaram 24 |

karaṇam ā etayoh gativiśeṣah
5
6,
anulomavivaram 24 | asya gativiśeṣeṇa bhāgalabdham divasāḥ 28, divasabhāgāḥ ca
4
5
|| 31 ||

[kuṭṭākāraḥ]

idānīm kuṭṭākāragaṇitam abhidhīyate | tatra āryāsūtradvayam ā

adhikāgrabhāgahāram chindyāt ūnāgrabhāgahāreṇa |
śeṣaparasparabhaktam matiguṇam agrāntare kṣiptam || 32 ||
adhaupariguṇitam antyayuk ūnāgracchedabhājite śeṣam |
adhikāgracchedaguṇam dvicchedāgram adhikāgrayutam || 33 ||

adhikāgrabhāgahāram chindyāt | agram śeṣah | adhikāgram yasya saḥ ayam
adhikāraḥ | adhikāraḥ ca asau bhāgahāraḥ ca adhikāgrabhāgahāraḥ | tam
adhikāgrabhāgahāram, chindyāt vibhajet iti arthaḥ | kena iti āha ā ūnāgrabhāgahāreṇa |
śeṣaparasparabhaktam | labdhena na asti prayojanam, śeṣeṇa saha karma kriyate |

paraspareṇa bhaktam parasparabhaktam, itaretarabhaktam iti arthaḥ | śeṣeṇa saha
parasparabhaktam śeṣaparasparabhaktam | matiguṇam,
svabuddhiguṇam iti arthaḥ | katham punar svabuddhiguṇaḥ kriyate ? ayam rāśih kena
guṇitam idam agrāntaram prakṣipya viśodhya vā asya rāśeh śuddham bhāgam dāsyati
iti | agrāntare kṣiptam | sameṣu kṣiptam viṣameṣu śodhyam iti sampradāyāvicchedāt
vyākhyāyate |

evam paraspareṇa labdhāni padāni avasthāpya, matih ca adhah, paścimalabdhām ca
matyā adhah | adhupariguṇitam, adhahsthitena rāśinā uparirāśih guṇitah | antyayuk,
antyena rāśinā paścimalabdhena sahitah | evam bhūyah bhūyah karma yāvat
karmaparisamāptim iti | ūnāgracchedabhājite śeṣam, ūnāgrasya yat chedam tena
bhājite śeṣam, tena ūnāgracchedena pūrvaganitakarmanā niṣpannarāśeh
vibhaktaśeṣam parigṛhyate | adhikāgracchedaguṇam, adhikāgracchedena
abhyastam | dvicchedāgram, dvayoh chedayoh agram, agram saṅkhyā |
adhikāgrayutam, adhikāgreṇa yutam adhikāgrayutam | etat uktam bhavati ā
ūnāgracchedabhājite śeṣam adhikāgracchedena abhyastam adhikāgrasahitam tat
dvayoh api chedayoh bhājyarāśih bhavati iti |

evam sāgrakutṭākāraḥ vyākhyātaḥ | niragrakutṭākāraḥ api uttaratra vakṣyati |

uddeśakah ā

pañcabhiḥ ekam rūpam dve rūpe ca eva saptabhāgena |
avaśisyate tu rāśih viganyatām tatra kā saṅkhyā || 1 ||

nyāsaḥ ā 1 2

karaṇam ā adhikāgracchedam sapta 7, ūnāgracchedena pañcakena 5, bhājite śeṣam upari dvau 2 adhaḥ pañca 5 | alpaḥ rāśih iti atra eva matih kalpyate | ayam [upari] rāśih kena guṇitah rūpam agrāntaram prakṣipya pañcabhiḥ śuddham bhāgam dāsyati iti labdhā matih dve rūpe | bhāgalabdham ekam 1, śeṣam 0 | asya sthāpanā

2

1 |

trīyapadasya asambhavāt etat eva sañjātam | ūnāgracchedabhājite śeṣam 2, adhikāgracchedena saptakena guṇitam jātam 14, adhikāgra[2]sahitam 16 | etat eva dvicchedāgram | ayam eva rāśih pañcabhiḥ bhāgam hriyamāṇah ekāgrah, saptabhiḥ dvyagraḥ iti |

uddeśakah ā

dvādaśabhiḥ pañcāgrah saptāgrah sa ca punar mayā drṣṭah |
ekatrimśadbhaktah kah asau rāśih bhavet ekaḥ || 2 ||

nyāsaḥ ā 5 7

12 31

karaṇam ā "adhikāgrabhāgahāram chinyāt ūnāgrabhāgahāreṇa" iti śeṣam upari sapta, adhaḥ dvādaśa | etayoh parasparabhakte labdhām ekam, punar ekam eva, śeṣam upari dvau adhaḥ pañca | atra matih | samāni padāni iti ayam rāśih kena guṇitah rūpadvayam agrāntaram prakṣipya pañcabhiḥ śuddham bhāgam dāsyati iti labdhām rūpam catuṣkam matih | tām pūrvalabdhasya adhaḥ vyavasthāpayet | bhāgalabdham ca rūpadvayam iti evam labdhām adhaḥ vyavasthāpyah | "adhaupariguṇitam antyayug" iti anena nyāyena labdhām 10 | etat eva

"ūnāgracchedabhājite śesam adhikāgracchedagunam" jātam 310, "adhikāgrayutam dvicchedāgram" tat ca idam 317 |

uddeśakah ā

aṣṭābhiḥ pañcāgraḥ caturagraḥ kīrtitah navabhiḥ eva |
saptabhiḥ ekāgraḥ asau vigaṇyatām kaḥ bhavet rāśih || 3 ||

nyāsaḥ ā 5 4 1

8 9 7

karaṇam ā

5 4

8 9.

etayoḥ kuttākāreṇa [labdham] rūpam 1, rāśih ca trayodaśa | atra chedayoh abhyāsaḥ
bhāgahāraḥ iti sthāpanā

13 1

72 7 |

etayoḥ pūrvavat labdhah rāśih 85 | ayam rāśih aṣṭābhiḥ bhāgam hriyamāṇah
pañcāgraḥ, navabhiḥ caturagraḥ, saptabhiḥ ekāgraḥ iti |

uddeśakah ā

dvyādyaiḥ śaṭparyantaiḥ ekāgraḥ yaḥ avaśisyate rāśih |
saptabhiḥ eva sa śuddhaḥ vada śīghram kaḥ bhavet gaṇaka || 4 ||

nyāsaḥ ā 1 1 1 1 1 0

atra icchayā adhikāgraḥ rāśih parikalpanīyah | labdham pūrvavat rāśipramāṇam 301 |
evam sāgrakuṭṭākāraḥ vyākhyātaḥ |

[niragrakuṭṭākāraḥ]

idānīm tu eva sūtre niragrakuṭṭākārtham vyākhyāsyāmaḥ | adhikāgrabhāgahāram
chindyāt apavartayet iti arthaḥ | kena iti āha ā ūnāgrabhāgahāreṇa | agram saṅkhyā,
ūnam ca tadagram ca ūnāgram, ūnāgram ca tat bhāgahāraḥ ca sa ūnāgrabhāgahāraḥ,
tena ūnāgrabhāgahāreṇa, apavartayet iti arthaḥ | yathā ekavimśatiḥ saptabhiḥ
apavartyate | yena bhāgahāraḥ apavartitah tena eva bhājyah api apavartanīyah |
katham idam avagamyate yena eva bhāgahāraḥ
apavartitah tena eva bhājyah api apavartanīyah iti ? sampradāyāvicchedāt | athavā
nyāyah eṣaḥ, apavartitasya bhāgahārasya apavartitena eva bhājyena bhavitavyam iti,
yathā saptabhiḥ ekavimśatiḥ bhāgāḥ apavartitāḥ tribhāgāḥ | athavā bhāgahārasya
apavartanam bruvatā ācāryeṇa bhājyasya api apavartanam abhihitam eva | kutah ?
bhāgahārabhājyayoh sahacāritvāt | yathā sthalāni parimrjyantām iti ukte sarakāṇi api
parimrjyante | adhikāgrabhāgahāram iti ādinā granthena
etat pratipādayati ā apavartitayoh bhāgahārabhājyayoh kuṭṭākāraḥ iti |
śeṣaparasparabhaktam, bhāgahārabhājyayoh parasparabhaktam iti | matiguṇam iti etat
pūrveṇa samānam | agrāntare kṣiptam, agram saṅkhyā, agrasya antaram agrāntaram
saṅkhyāntaram iti arthaḥ | tat ca icchāparikalpitam idam saṅkhyāntaram prakṣipya
apanīya vā asya rāśeḥ śuddham bhāgam dāsyati iti | adhaupariguṇitam antyayuk iti etat
sarvam pūrveṇa samānam | ūnāgracchedabhājite śeṣam,
apavartitabhāgahāraśeṣam iti arthaḥ | kuṭṭākāraḥ bhavati iti vākyāseṣaḥ | upari [rāśih]
bhāgahāreṇa bhaktah [kāryah] adhorāśih bhājyarāśinā bhājyah | gaṇite api uktam ā

upari ca bhāgahāreṇa bhakte hi rāsiḥ bhavet vā |

iti evam ādinā granthena | śeṣe kuṭṭākārabhāgalabdhe bhavataḥ iti |
adhikāgracchedaguṇam iti ādi na niragrakuṭṭākāreṣu [upayujyate] |

tat yathā uddeśakah ā

aṣṭau kena abhyastāḥ ṣadrūpayutāḥ hṛtāḥ trayodaśabhiḥ |
dadyuḥ śuddham bhāgam kaḥ guṇakāraḥ kim āptam ca || 5 ||

nyāsaḥ ā 8 6

13

bhājyah aṣṭau, bhāgahāraḥ trayodaśa, agrāntaram ṣaṭ |

karaṇam ā bhājyabhāgahārarāśī rūpeṇa apavartitau

8

13

"śeṣaparasparabhaktam" iti jātam

1

1

1

1 |

parasparabhaktaśeṣam

1

2 |

"matiguṇam agrāntare kṣiptam" iti ayam ekaḥ rāsiḥ kena guṇitah ṣadrūpāṇi prakṣipya

dvābhyaṁ śuddham bhāgam dāsyati iti matih dve 2, matyā guṇitam jātam

2

2 |

etat ṣaḍrūpayutam

8

2 |

labdham rūpacatuṣkam 4 | etat sarvam yathākramena

1

1

1

1

2

4 |

"adhaupariguṇitam antyayuk" iti jātam

22

14 |

"ūnāgracchedabhājite śeṣam" iti ūnāgra[=apavartita]bhāgahārabhājyabhaktaśeṣam

sthāpitam

9

6 |

ayam kuṭṭākāraḥ bhāgalabdham ca |

uddeśakah ā

ekādaśa kena hatāḥ trikarahitāḥ te hṛtāḥ trivimśatyā |

dadyuḥ śuddham atha amśam labdham guṇakam ca me brūhi || 6 ||

nyāsaḥ ā 11

23

[trika]rahitāt labdham pūrvakramena eva kuṭṭākāraḥ bhāgalabdham ca

17

8 |

[grahakuṭṭākāraḥ, maṇḍalaśeṣavidhiḥ]

atha idānīm grahagaṇite kuṭṭākāraḥ yojyate ā ravibhāgaṇāḥ kena gunitāḥ
maṇḍalaśeṣam apanīya bhūdivasānām śuddham bhāgam dadyuḥ iti ravibhagaṇāḥ
bhūdivasāḥ ca nyasyante

4320000

1577917500 |

etau ūnāgracchedārtham parasprena bhājyau | śeṣam ūnāgracchedaḥ
pañcasaptatiśatāni 7500 | anena apavartitau

576

210389|

etau ūnāgracchedabhājitaḥ śeṣau | etayoḥ bhagavataḥ bhāskarasya kuṭṭākāraḥ
sādhyāḥ |

uddeśakah ā

madhyam raveḥ mṛgapatau dhanuḥ amśakārdhe

dṛṣṭam mayā dinakarodayakālajātām |

āgaṇyatām dinagaṇaḥ bhaṭāśāstrasiddhaḥ

yātāḥ ca tasya bhagaṇāḥ kalikālasiddhāḥ || 7 ||

nyāsaḥ ā [madhyamaravīḥ] 4 | 28 | 20 |

"gaṇakārāḥ bhāgaharāḥ" [gaṇitaī, 28] iti maṇḍalaśeṣānayanam | tat yathā ā savitāram
liptīkṛtya jātam 8900 | etat anena 210389 guṇitam khakhaṣadghanena [21600] bhaktam,
labdham maṇḍalaśeṣam 86688 | idam eva maṇḍalaśeṣam agrāntaram parikalpya
kuṭṭākāraḥ kriyate |

[nyāsaḥ]

576 agrāntaram 86688

210389

labdham kuṭṭākāranyāyena ā

8201068565

22452768

ūnāgrabhāgahārabhājyabhaktaśeṣau ā

[105345

288]

[288] etat kalīyātam, ahargaṇāḥ ca ā 105345 |

athavā ekarūpāpacayena kuṭṭākāram kṛtvā ahargaṇāḥ maṇḍalāni ca ānīyante | tat yathā
ā ekāpacayena kuṭṭākārabhāgalabdhau ā

94602

259

anena maṇḍalaśeṣeṇa ca traīrāśikam ā yadi ekarūpāpacayena ayam kuṭṭākāraḥ
maṇḍalaśeṣāpacayena kiyān iti nyāsaḥ ā 1, 94602, 86688 | atra labdham
nirapavartitadivasaiḥ vibhaktaśeṣam ahargaṇaḥ pūrvalikhitaḥ eva | maṇḍalānayane
ekarūpāpacayena idam bhāgalabdham, maṇḍalaśeṣāpacayena kiyat iti nyāsaḥ ā 1,
259, 86688 | atra labdham nirapavartitamaṇḍalaiḥ vibhaktam śeṣam maṇḍalāni
pūrvalikhitāni eva |

[maṇḍalagantavyavidhiḥ]

athavā nirapavartitabhāgahārabhājyarāśī [maṇḍalagantavyam] [kṣepaḥ ca] parikalpya
kuṭṭākāraḥ kriyate | tat yathā ā

gantavyam raviṇā aṣṭam asya bhavanasya āhuḥ kalānām śatam
sañcintya āśu vada aśmakasya gaṇitam jñātam tvayā cet yadi |
yāvanti adya kaleḥ gatāni matiman varṣāṇi sarvāṇi me
tu ahnām yaḥ ca gaṇaḥ sa ca eva viśadam vācyam kaleḥ yaḥ gatam || 8 ||

nyāsaḥ ā gantavyam raviṇā ā

7

1

40

anena maṇḍalagantavyena "guṇakārāḥ bhāgaharāḥ" iti maṇḍalagantavyam 123701 |
anena upacayāgreṇa pūrvavat ahargaṇaḥ kalyātam ca

105345

288 |

ekarūpopacayena kuṭṭākāraḥ bhāgalabdham ca

115787

317 |

pūrvavat anena api yadi ekarūpopacayena ayam kuṭṭākāraḥ bhāgalabdham vā
maṇḍalagantavyopacayena [123701] kaḥ kuṭṭākāraḥ bhāgalabdham ca iti labdham
nirapavartitabhāgahārabhājyabhaktaśeṣam ahargaṇaḥ bhāgalabdham ca |

atra maṇḍalagantavyaprakṣepāt ekam adhikam bhavati | ataḥ maṇḍalam ekam
apanīyate | evam maṇḍalakuṭṭākāraḥ vyākhyātaḥ |

[rāśikuṭṭākāraḥ]

idānīm tu rāśikuṭṭākāraḥ ucyate | tat yathā ā

uddeśakah ā

vātyā hṛtāḥ sabhagaṇāḥ divasasya bharttuḥ
ye rāśayah divasarāśivaśena labdhāḥ |
śeṣam trisapta navapañca ca bhāgaliptāḥ
vācyam divākaragatam dinarāśisākam || 9 ||

nyāsaḥ ā 0

0

21

59

karaṇam ā "guṇakārāḥ bhāgaharāḥ" iti rāśiśeṣam labdham 154168 |
apavartitaravibhagaṇāḥ dvādaśaguṇāḥ rāśayah iti sthāpanā
6912
210389 |
rāśiśeṣam 154168 |

labdham kuṭṭākārakramena ahargaṇāḥ bhāgalabdham ca ā
176564
5800

bhāgalabdham dvādaśabhiḥ vibhajya labdham bhuktabhagaṇāḥ | śeṣam rāśayah | te ca
483, [4] | ahargaṇāḥ [176564 | athavā] yāvat abhirucitam pṛcchakāya |

ekarūpāpacayena api kuṭṭākāram kṛtvā labdham ā
113078
3715

etābhyām api trairāśikena ahargaṇāḥ bhāgalabdham ca
176564
5800

śeṣam samānam |

[prakārāntareṇa sādhanavidhiḥ]

anye punar dvādaśānām bhūdivasānām ca ekāpanayena kuṭṭākāram kṛtvā trairāśikam
kurvanti | yasmāt maṇḍalaśeṣasya dvādaśa guṇakāraḥ | tatra gatāḥ rāśayah
maṇḍalaśeṣam ca labhyante | tat yathā ā

nyāsaḥ ā

12

210389

atra labdham kuṭṭākāraḥ bhāgalabdhām ca ā

122727

7

śeṣam uktatvāt na uktam |

[bhāgakuṭṭākāraḥ]

bhāgaśeṣaḥ uddeśakaḥ ā

bhagaṇabhavenabhāgāḥ vātanītāḥ samastāḥ
dinakaraparibhuktāḥ liptikāḥ pañca drṣṭāḥ |
vada yadi dinarāśim vetsi cet āśmakīyam
gatam api dinabhartuḥ maṇḍalādyam kṣaṇena || 10 ||

nyāsaḥ ā

0

0

0

[labdham] bhāgaśeṣam ā 17532

pūrvavat labdham ahargaṇah bhāgalabdham ca ā

62715

61812

yadā punar ekāpanayena kuṭṭākāram kṛtvā trairāśikam kriyate tadā api sa eva
ahargaṇah, tat eva bhāgalabdham | tat yathā ā ekāpanayena api kuṭṭākārabhāgalabdhe
syātām | te ca ā

59873

51011

anena trairāśikena pūrvavat labdhaḥ eva ahargaṇah bhāgalabdham ca | bhāgalabdhe
śaṣṭiśatatrabayabhakte gatamaṇḍalāni rāśibhāgāḥ ca jātāḥ 171, 8, [12] |

anye punar trimśataḥ nirapavartitabhūdinānām ca kuṭṭākāram kṛtvā trairāśikena
gatabhāgān rāśiśeṣam ca ānayanti | tat yathā ā

[nyāsah] ā

30

210389

[atra] kuṭṭākāraḥ bhāgalabdham ca ā

7013

1

anena trairāśikam kṛtvā rāśiśeṣam gatabhāgāḥ ca ā

84740

12

anena rāśiśeṣeṇa ahargaṇānayanasya abhihitvāt na uktam |

[liptākuṭṭākārah]

evam liptāśeṣam drṣṭvā kuṭṭākārah kriyate | tat yathā ā

uddeśakah ā

maṇḍalarkṣalavalaliptikā hṛtā mārutena [vikalā pradṛsyate] |

kathyatām dinaganāḥ vivasvataḥ bhuktamaṇḍalagr̥hāṁśaliptikāḥ || 11||

nyāsaḥ ā

0

0

0

0

1

pūrvavat labdham liptikāśeṣam ā 3506

karaṇam ā khakhaṣadghanena apavartitaravibhagaṇān samguṇayya sthāpanā ā

12441600

210389

atra bhāgahāreṇa bhājyam vibhajya labdham pṛthagvinaṣṭam sthāpayet | śeṣasya

bhūdivasānām ca kuṭṭākāram kṛtvā labdhasya uparirāśim kuṭṭākāram
avinaśṭasthāpitena prthak samguṇayya bhāgalabdham prakṣipet | bhāgalabdham
bhavati | anena krameṇa labdham ahargaṇah bhāgalabdham ca | sthāpanā ā

125342

7412246

bhāgalabdhe khakhaṣaḍghanabhakte gatamaṇḍalāni rāśibhāgaliptāḥ ca ā

343

1

27

26

athavā ekāpanayena kuṭṭākāram kṛtvā trairāśikam kriyate | tat yathā ā ekāpanayena
kuṭṭākāraḥ bhāgalabdham ca ā

81647

4828291

śeṣam uktatvāt na uktam |

athavā ṣaṣṭyā bhūdivasānām ca ekāpanayena kuṭṭākāram kṛtvā bhāgaśeṣam gataliptāḥ
ca labhyante anupātena | tat yathā ā ekāpanayena ṣaṣṭyā bhūdivasānām ca kuṭṭākāraḥ
bhāgalabdham ca ā

108701

31

evam liptātatparāśeṣayoh̄ api yojyam |

atha kaścit sūryam uddiśya kiyatā kālena punar evamvidhah sūryah bhavisyati iti
prcchati, sa evam vaktavyah ā nirapavartitabhūdinatulyaiḥ iti, yasmāt
nirapavartitabhūdinaiḥ kṣiptah sūryah tādr̥k eva bhavati |

[vārakuṭṭākāraḥ]

atha kaścit sūryadine sūryam uddiśya punar kiyatā kālena sūryadine somadine anyasya
vā grahavāradivase sūryah evam bhavisyati iti prcchati, tat yathā ā
nirapavartitabhūdineṣu saptahṛtāvaśiṣṭeṣu kuṭṭākāraḥ kriyate | grahavāraḥ yaḥ nirdiṣṭah
tasmāt ya[t u]ttarāḥ grahavāraḥ tataḥ prabhṛti ekottarayā vṛddhyā apacayam parikalpya
evam labdham kuṭṭākāraḥ nirapavartitabhūdinānām guṇakāraḥ tena guṇiteṣu
nirapavartitabhūdineṣu nirdiṣṭasūryeṇa ānītam
ahargaṇam prakṣipya jātadivasatulyaḥ kālah ādeṣṭavyaḥ | tat yathā ā

uddeśakah ā

dhanvinyamśāḥ śarakṛtisamāḥ ṣaṭkṛtih maurikāṇām
madhyam bhānoḥ daśa ca vikalāsamuyutam varṇayanti |
rātreḥ pātuḥ tanujadivase kena kālena tulyaḥ
bhāvī sūryah kathaya viśadam jīvaśukrajñavāre || 12 ||

budhadivase ayam sūryamadhyamaḥ ā

8

25

36

10

anena sūryena pūrvakaranena labdham ahargaṇah 1000 | asmin ahargaṇe budhavārah
| atha kuṭṭākārānayanam | nirapavartitabhūdivaseṣu saptabhakteṣu śeṣah 4 |
jīvadinārtham kuṭṭākārah ekāpanayena 2, anena nirapavartitabhūdivasāḥ guṇitāḥ jātāḥ
420778, asmin pūrvalabdhaḥ[hargaṇayute jātāḥ] kālah 421778 | śukradinārtham
kuṭṭākāre dvau apanīyate | labdham pūrvavat kālah 842556 | budhadinārtham
kuṭṭākārah 7 | kālah ca 1473723 |

evam sarveṣu eva divasavāreṣu yuktyā kālah kuṭṭākārah ca yojyah |

[grahakuṭṭākāre viśeṣah]

yah upacayāgraḥ kuṭṭākārah sa ca rāśibhāgaliptāśeṣeṣu api yojyah | tat yathā ā

uddeśakah ā

ye bhuktāḥ pavanahṛtāḥ sarāśibhāgāḥ
dṛṣyante divasakareṇa bhojyaliptāḥ |
tanmātrāḥ viṣayakṛtih śivaiḥ sametāḥ
vācyah ahnām atha ca gaṇaḥ dvākaraḥ ca || 13 ||

nyāsaḥ ā

0

0

36

atra apavartitabhagaṇān bhāgīkṛtya upacayāgreṇa saha pūrvavat kuṭṭākāralabdhaḥ
ahargaṇaḥ bhāgalabdhaḥ ca

66027

65077 |

atra bhāgalabdham ekena adhikam bhavati | ekam apanīya śeṣe ṣaṣṭiśatatrabayabhakte
raveḥ bhagaṇāḥ rāśayah bhāgāḥ ca prativaktavyāḥ |

ekarūpopacayena api kuṭṭākāram kṛtvā gantavyāgreṇa anena 126233 traīrāśikam |
anena api labdham ahargaṇāḥ bhāgalabdham ca pūrvalikhitam eva | evam anyeṣām
api grahāṇām kuṭṭākāraḥ yojyāḥ |

[vārakuṭṭākāre viśeṣaḥ]

atha kaścit evam pr̄cchati ā sūryācandramasau sūryadine somadine vā iyatsaṅkhyau |
etau punar kiyatā kālena etāvatsaṅkhyau eva bhaviṣyataḥ iti | atra kuṭṭākārakramāḥ ā
kaścit rāśih sūryasya nirapavartitabhūdivasaiḥ bhāgam hriyamāṇāḥ śūnyāgraḥ,
candrasya api śūnyāgraḥ eva saḥ | asmin uddeśane dvayoh api sambandhah
dvicchedāgrasamvargaḥ hi nāma sadṛśikaraṇam rāśeh | atra ca sūryasya
nirapavartitadivasāḥ anena 3449 apavartitāḥ labdham 61 | candrasya
api tena eva apavartitena jātāḥ 625 | tataḥ sūryasya niravartitadinānām
apavartitacandradivasāḥ gunakāraḥ | te ca atra likhitāḥ eva | gunite jātam 131493125 |
candrasya api sūryāpavartitadivasaiḥ gunite jātam 131493125 | anena rāśinā pūrvavat
grahakuṭṭākāraḥ yojyāḥ | tat yathā ā

uddeśakah ā

sūryācandramasau tulādharanare dṛṣṭau mayā tattvataḥ
bhāgaiḥ dvādaśabhiḥ dvayena ca yutau sūryasya vārodaye |
liptābhiḥ śaśisūnyasāgarayutau jīvasya vāre punar

śukrasya atha śanaiścarasya divase tulyau kiyadbhiḥ dinaiḥ ||
viliptābhiḥ adhikāḥ arkaḥ vijñeyah bhūdharendubhiḥ |
śodhayet ca niśānāthāt viliptāḥ dhṛtisammitāḥ || 14 ||

nyāsaḥ ā

[sūī] [camī]

6 6
12 2
1 39
17 42

labdham ābhyām ahargaṇaḥ ā 7500 |

karaṇam ā sūryācandramasoḥ nirapavartitadivasānām grahabhaktaśeṣam

1

7 |

nirdiṣṭavārāt uttarataḥ caturthah jīvah, pañcamah śukraḥ, ṣaṣṭhah śanaiścaraḥ iti etaiḥ
evam tu ime grahabhaktaśeṣāt yathākramenā labdhāḥ jīvasya 4, śukrasya 5,
śanaiścarasya 6 | ete eva sūryācandramasoḥ nirapa[va]rtitadivasānām guṇakārāḥ |
guṇakāraguṇiteṣu ānītāhargāṇam prakṣipya kramenā ā

[525980000, 657473125, 788966250 divasāḥ]

[grahayoyena kuṭṭākāraḥ]

atha kaścit dvau grahau ekatra kṛtvā ahargaṇam pṛcchati tasya ayam upāyaḥ ā

nirdiṣṭagrahabhabhaṇānām samāsitānām bhūdivasānām ca apavartanam kṛtvā
kuṭṭākāraḥ karaṇīyah | tat yathā ā

uddeśakah ā

trimśatpañcaśāśānkāḥ samyuktau śaśidivākarau drṣṭau |
dinarāśim brūhi gatam cakrāṇi ca yāni bhktāni || 15 ||

nyāsaḥ ā 1

5

30

karaṇam ā candrādityabhabhaṇāḥ 62073336 | [yugakudinapramāṇam ca] 1577917500 |

etau dvādaśabhāgena apavartitau jātau ā

5172778

131493125

maṇḍalaśeṣam ā 12966683 | atra labdham pūrvavat ahargaṇah bhāgalabdham ca ā

87942886

3459565

ekāpanayena api traīrāśikam kṛtvā sa eva ahargaṇah bhāgalabdham ca labhyate | tat
yathā ā

ekarūpāpacayena api kuṭṭākāraḥ bhāgalabdham ca ā

57699692

2269835

[atra api traīrāśikena pūrvoktaḥ eva ahargaṇaḥ bhāgalabdham ca |]

evam anyeśām api samāsapraśneṣu kuṭṭākāraḥ kalpanīyaḥ, rāśibhāgaliptāśeṣeṣu api |
evam eva tricatuḥsamāṣeṣu api vistareṇa vyākhyeyam |

[dvyagrakuṭṭākāraḥ]

atha kaścit divasakaramaṇḍalaśeṣaparisamāptikāle janitam divicaram uddiśya
divasakaram divicarabhagaṇān pr̄cchatī, tasya ayam upāyaḥ ā nirdiṣṭadivicaram
ravibhagaṇān ca apavartya kuṭṭākāraḥ yojyaḥ | tat yathā ā

uddeśakah ā

bhānumaṇḍalasamāptikālajah̄ medinīhṛdayajah̄ abhilakṣitah̄ |
dvitipañcavīṣayāḥ gṛhādayah̄ brūhi maṇḍalagatam kujārkayoh̄ || 16 ||

nyāsaḥ ā 2

15

5

karaṇam ā kujārkabhagaṇāḥ ā

2296824

4320000

etau caturvīṁśatibhiḥ apavartitau ā

95701

180000

maṇḍalaśeṣam idam 37542 | labdham ravikujayoh yātabhagaṇāḥ 68142, 36229 |

ekāpanayena api kuṭṭākāram kṛtvā traīrāśikena te eva bhagaṇāḥ | tat yathā ā
ekāpanayena kuṭṭākāraḥ bhāgalabdham ca ā

174301

92671

evam eva anyeṣām api grahāṇām |

athavā graham uddiṣya graham eva anyam [pṛcchati tatra] api
bhāgahārabhājyaparikalpanayā kuṭṭākāraḥ kalpanīyah |

atha maṇḍalaparisamāptikālāt anyakālasambhūtagrahabhagaṇādīn uddiṣyate tathā
[graha]bhagaṇāt tatra ravibhagaṇārāśibhāgaliptān ca pṛcchati, tasya api
kuṭṭākārānayanasya ayam upāyah ā ravibhagaṇān khakhaṣadghanena samguṇayya
nirdiṣṭabhaṇaiḥ saha apavartya kuṭṭākāravidhiḥ iti | tat yathā ā

uddeśakah ā

svoccāṁśakārdham adhirūḍhamahendrasūrī
tejovitānavimalīkṛtadiṇmukhena |
sūryeṇa yātam iha pṛcchati ca āśmakīye
vācyam kim āśu vada tasya viśālabuddhe || 17 ||

nyāsaḥ ā 0

3

4

30

karaṇam ā [gurubhagaṇāḥ] khakhaṣadghanagunītasūryabhagaṇaiḥ saha apavartite
dvinavatyuttaraśatabhāgena jātau

1897

486000000

śeṣam apacayaḥ 127575000 | labdham sūryayāta[liptāḥ guru]bhagaṇāḥ ca 78975000,
[308] | liptāḥ khakhaṣadghanabhaktāḥ maṇḍalāni rāśayaḥ bhāgāḥ liptāḥ ca sūryasya

3656

3

0

0

ekāpanayana api kuṭṭākāram kṛtvā traīrāśikena etat eva labhyate | tat yathā ā
ekāpanayena api kuṭṭākāraḥ bhāgalabdham ca ā

135014233

527

evam rāśyādiśeṣeṣu api yojyam |

[velākuṭṭākāraḥ]

atha velākuṭṭākāraḥ | kaścit graham udāyakālāt anyakālajanitam pradarśya
divasaganam pṛcchati, tasya ayam ānayanopāyaḥ ā iṣṭakālācchedagunītān
nirapavartitabhūdivasān kṛtvā pūrvavat kuṭṭākāram niṣpādyā iṣṭakālācchedabhartāḥ

ahargaṇah | tat yathā ā

uddeśakah ā

rātryardhakālajanitah divasasya bhartuh
iṣṭah mṛgārdhasahitah aṣṭacatuṣkalāgraḥ |
liptātribhāgaśakaladvitayena yuktaḥ
śīghram dinādi bhagaṇān ca vada āśmakīyam || 18 ||

nyāsaḥ ā 9

15

32

40

karaṇam ā ahargaṇah caturbhāgena anena iti catvāri nirapavartitadinānām gunakārah
iti caturbhāgena ravibhagaṇān apavartya sthāpanā

144

210389 |

maṇḍalaśeṣam 166876 | labdham pūrvavat kuṭṭākārah [7003] | asya caturthāṁśāt
ahargaṇah [1750] |

evam āstamayikah uddeśakah ā

astādreḥ tuṅgaśṛṅgavyavahitavapusah tigmaraśmeh gatānām
cakrādyaṅkāvalīnām kramagaṇitacayaḥ vismṛtaḥ sarvaḥ eva |
drṣṭah liptāgraśeṣah gunaviyaduḍupāḥ spaṣṭah eva aṅkarāśih
śīghram vācyah gaṇah ahnām kaliyugagaṇitah maṇḍalādih ca bhāsvān || 19 ||

nyāsaḥ ā 288 [x 21600] śeṣam 103

210389

anena apacayena pūrvavat ahargaṇasthāpanā ā 99275

bhāgalabdham raveḥ yātamaṇḍalarāśibhāgaliptāḥ ā

271

9

16

13

ekāpanayena kuṭṭākāraḥ bhāgalabdham ca

163294

4828291 |

anena api traīrāśikena pūrvāṇītaḥ ahargaṇaḥ bhāgalabdham ca maṇḍalādi [pūrvoktam
eva] |

mādhyāhnikāḥ uddeśakaḥ ā

[yat śeṣam maṇḍalānām kha] navanagacaturbhūtaśītāṁśutulyam
madhyam yātasya bhānoḥ paṭutaranikaradyotitāśāmukhasya |
dr̥ṣṭam vācyah gaṇaḥ ahnām gatabhagana[cayah yaḥ api kālena] siddhah
kuṭṭākāropadeśaḥ vidhivat adhigataḥ yena tena āśmakīyah || 20 ||

nyāsaḥ ā

[144

210389] maṇḍalaśeṣam 154790 |

anena maṇḍalaśeṣeṇa pūrvakaraṇena labdham [kuṭṭākāraḥ] bhāgalabdham ca
3997

2,

kuṭṭākārasya caturthaḥ amśaḥ ahargaṇaḥ 999 |

ekāpanayena kuṭṭākāraḥ bhāgalabdham ca

168019

115 | anena traīrāśikena pūrvavat ahargaṇānayanam |

tathā ca yāmamuhūrtanāḍīvināḍīkākāleṣu api yathāyogam yuktyā kuṭṭākāraḥ
vikalpanīyah | tat yathā ā

uddeśakah ā

nāḍībhiḥ kiyatībhiḥ api upacitāt ahnām gaṇāt āgataḥ
tigmāṁśoh bhagaṇādikāḥ atra vilayam nītaḥ adhunā vātyayā |
drṣṭaḥ saptatiḥ ekarūpasahitā śeṣaḥ kalānām mayā
vaktavyaḥ dyugaṇaḥ gataḥ ca savituh spaṣṭaḥ ca yāḥ nāḍikāḥ || 21 ||

liptāśeṣaḥ 71 |

karaṇam ā apavartitaravibhagaṇān ṣaṣṭyā saha apavartayet | ṣaṣṭyā dvādaśabhāgena
pañca | apavartitaravibhagaṇānām dvādaśabhāgena aṣṭacatvārimśat | pañcabhiḥ
bhūdināni [śeṣam ca] samguṇayya sthāpanā ā

1051945

[eṣu pañcabhiḥ apavartanam kṛtvā sthāpanā ā

207360 śeí 71]

210389

pūrvavat kuṭṭākāram kṛtvā labdhaḥ ahargaṇaḥ ā 720, nādyah 3 |

raviyātabhagaṇādayaḥ ca ā

1

11

19

41

ekāpanayanena api kuṭṭākāraḥ bhāgalabdhām ca ā

59873

59011

pūrvavat traīrāśikena ahargaṇaḥ bhāgalabdhām ca |

[anapavartitaśeṣena kuṭṭākāraḥ]

atha punar a[na]pavartitam eva śeṣam uddiṣya ahargaṇam yātam ca pṛcchati, tasya api
ayam ānayanopāyaḥ | bhāgahārabhājyāgrāṇām ekena apavartanacchedena
apavartanam kṛtvā pūrvavat kuṭṭākāraḥ kriyate | atha punar etāni bhāgahārabhājyāgrāṇi
chedena ekena apavartanam na prayacchanti yathā tathā asau uddeśakah, tādṛśaḥ ca
ekaḥ rāśih eva na asti atah na ānīyate |

uddeśakah ā

śarayamavasavah śatābhinighnā dinakaramaṇḍalaśeṣarāśisaṅkhyā |
avikṛtabhagaṇakṣamādinotthā kathaya tayā dinarāśimaṇḍalāni || 22 ||

nyāsaḥ ā 4320000 śeṣam ā 82500
1577917500

ete rāśayah ca khākāśaśaramunibhiḥ apavartya kuṭṭākāreṇa ahargaṇah
raviyātamaṇḍalāni ca ā
199066
545 |

[dvyagrakuṭṭākāraviśeṣah]

atha kaścit [dvi]cchedāgranyāyena ekam ahargaṇam grahayoh
bhinnāgrabhagaṇaśeṣābhyaṁ pṛcchati, tasya api "adhikāgrabhāgahāram chindya"
ādityanena dvicchedāgrānayanam |

uddeśakah ā

arkāṅgārakavāsaraiḥ apahṛtaḥ kaścit dinānām gaṇaḥ
labdhau [tatra na vedmi] na eva ca tayoḥ śeṣau mayā lakṣitau |
yau tau maṇḍalatādītaiḥ atha punar bhaktau dinaiḥ svaiḥ pṛthak
tatra āptam marutā apanīta[m adhunā ca agre tayoḥ ti]ṣṭhataḥ ||
arkasya aśvinagābdhināgaśikhinah śeṣah kujasya ucyate

bhūtāśvyaṅganabhah aṣṭāśītakiranakṣonīśarakṣmābhṛtaḥ |
etābhyām pṛthak [arkabhūmisutayoḥ ahnām] gaṇau tadgatau
dvyagram ca api tayoḥ vigaṇya gaṇakāḥ vyāvaraṇayadhvam kramāt || 23 ||

nyāsaḥ ā arkasya 38472

bhaumasya 77180625

etābhyām maṇḍalaśeṣābhyām pṛthak pṛthak pūrveṇa krameṇa kuṭṭākāram kṛtvā¹
ahargaṇau labdhau, arkasya 8833, bhaumasya 640000 | etābhyām agrābhyām
"adhikāgrabhāgahāram chindyāt ūnāgrabhāgahāreṇa" iti anena kuṭṭākārah kriyate |

tathā ca nyāsaḥ ā

[arkasya] 8833 [bhaumasya] 640000

210389 131493125

agrāntaram ā 631167

etayoḥ chedāgrāntarāṇām anena 210389 apavartanam kṛtvā sthāpanā ā

1 3

625

atra ūnāgracchedah ekaḥ tena sarvah eva rāśih śuddhyate iti atah rāśiviparyayāt
vyākhyāyate | tathā ca nyāsaḥ 1 | atra rūpam vidyate | ayam ekaḥ rāśih kena guṇitah
agrāntaram trīṇi apanīya [śarayamartubhiḥ bhāge hṛte] śuddham bhāgam prayacchati iti
labdhaḥ rāśih trīṇi rūpāṇi | asya viparyastarāśikrameṇa eva śarayamartubhiḥ bhāge hṛte
śeṣah kuṭṭākārah trikah tena adhikāgracchedena guṇitah jātaḥ 1875 | anena
adhikāgracchedah ayam 131493125 guṇitah
adhikāgrayutaḥ dvicchedāgram samjātam

śarādriguṇanavābdhidviviyadbhūtaśararasābdhinetrāṇi, aṅkaiḥ api nyāsaḥ
246550249375 | ayam rāśiḥ dvicchedāgraḥ | evam anyena chedāgreṇa saha kuṭṭākāre
kriyamāṇe dvicchedāgrasamvargah hāratām pratipadyate | dvicchedāgrarāśibhyām
saha kuṭṭākāreṇa tricchedāgrānayanam | evam caturagrāṇi api svadhiyā abhyūhyāni iti |

[kakṣyāvidhau dvyagrakuṭṭākārah]

atha kakṣyāharganeṣu uddeśakah ā

kakṣyāprakramasaṅkhyayā gaṇitayoh śeṣau ravīndvah raveḥ
dvyasteṣu abdhikṛtābdhikheśubhuvanacchidrendavah kīrtitāḥ |
nandāṅgāśviniśākarāḥ kṛtihatāḥ samyak sahasrasya te
dvyagram vācyam aharganah kalibhujaḥ yātāḥ ca tatparyayāḥ || 24 ||

nyāsaḥ ā 19350444582raveḥ

49797813966

1269000000 candrasya

3724920000

agrāntaram 18081444582 | ete bhāgahārāgrarāśyoḥ apavartanam prayacchanti |
vedanavartuśūnyayamaiḥ [20694] apavartya sthāpanā | 20694 etaiḥ apavartitā
ravikakṣyā 2406389 | candrasya api 180000 | agrāntaram apavartitam 873753 |

etaiḥ apavartitabḥāgahārāgrāntararāśibhiḥ kuṭṭākāranyāyena labdhaḥ rāśiḥ
guṇayamādripuṣkarartuśarāṁgādrīnduyamāḥ, aṅkaiḥ api 2176563723 |
"ūnāgracchedabhājite śeṣam" iti | ayam rāśiḥ ūnāgracchedena anena 180000 bhaktah
śeṣam [3727] | [anena] śeṣeṇa adhikāgracchedaḥ [ayam 2406389] guṇitah jātaḥ

saptodadhiyamāṅgāśṭānandāśṭāśaranandavasavah, aṅkaiḥ api 8958986247 | ayam
rāśih apavartanena anena [20694 guṇitah jā]tah
vasvindūdadhibhūtarandhrāgnīndurasayamādrinandāgniśaradhr̥tayah, aṅkaiḥ api
185397261395418 | ayam eva adhikāgreṇa yutah
[viyadabhrakhakhā]bdhivasurudraraśāṅgendūdadhiśaradhr̥tayah, aṅkaiḥ api
185416611840000 | ayam rāśih dvicchedāgraḥ | asya bhūdinaiḥ saha
apavartita[khakakṣayā bhāge kṛte] ahargaṇah labhyate | katham punar khakakṣyāyāḥ
bhūdinasya ca apavartanam ? ucyate ā kakṣyābhiḥ grahānayane khakakṣyāyāḥ
ahargaṇah guṇakārah,
svakakṣyābhūdinasaṁvargah bhāgahārah iti khakakṣyāyāḥ bhūdinānām ca
apavartanena viyadambaratithinandaiḥ labdham khakakṣyātah
kṛtodadhinagaśararāmāgnirasaguṇendavah, aṅkaiḥ api 136335744 | bhūdinebhyah api
śarābdhiyamādrīndavah, aṅkaiḥ api 17245 | anena bhūdinalabdhena yathā
svagrahakakṣyā guṇitā, ahargaṇāpavartitakhakakṣyābhyāsasya bhāgahārāḥ bhavanti |
pūrvalikhitadvicchedāgrarāśih apavartitakhakakṣyāharganasaṁvargah iti atah
svabhāgahārābhyām
vibhajya labdham sūryācandramasoh yātabhagaṇāḥ | raveḥ 3723, candraśya 49777 |
yau atra śeṣau tayoh maṇḍalaśeṣau yathākramenā nirdiṣṭau bhavataḥ | asmin eva
dvicchedāgre apavartitakhakakṣayā vibhakte labdham ahargaṇah rasaviśvāḥ
śatavargaguṇitāḥ, aṅkaiḥ api 1360000 |

uddeśakah ā

kakṣyākhyātavidhikramenā gaṇitau śeṣau kalānām kramāt
dvyaṅgeṣu abdhīśilīmukhatrikanabhbhūtendriyāśṭyah raveḥ |
candraśya āyutatāditāḥ kṛtarasāḥ vasvagnayah sūkṣmakāḥ
vācyāḥ tadbhagaṇādayah dinagaṇah dvyaṅgram ca tābhyām tayoh || 25 ||

nyāsaḥ ā raveḥ 16550354562

49797813966

candrasya api 2438640000

3724920000

atra kuṭṭākārasya yugapat sampādayitum aśakyatvāt pṛthak pṛthak kuṭṭākāreṇa
sūryācandramasoh maṇḍalaśeṣau apavartanīyau svacchedābhyaṁ

"adhibhāgahāram chindyāt ūnāgrabhāgahāreṇa" iti anena krameṇa

ahargaṇānayanam | tat yathā ā raveḥ śeṣabhāgahārau apavartitau ṣaḍbhiḥ ā

2758392427

8299635661

etābhyaṁ apavartitaśeṣabhāgahārābhyaṁ kuṭṭākāraḥ cintyate | tatra bhāgaśeṣam
śaṣṭyā saṅguṇayya anena eva apavartitabhāgahāreṇa bhāgam hṛtvā raveḥ liptāḥ
labhyante, liptāśeṣaḥ ca atiricyate | sa likhitāḥ eva | tatra idam cintyate ā ṣaṣṭiḥ kena
guṇitā liptāśeṣam apanīya apavartitabhāgahārasya śuddham bhāgam dāsyati iti | evam
bhāgaśeṣaḥ upalabhyate | sa ca 7377318041 | athavā ṣaṣṭiḥ kena guṇitā ekam apanīya
ṣaḍbhiḥ apavartitabhāgahāreṇa hṛtā śuddham

bhāgam dāsyati iti ekāpanayanakuṭṭākāram api ānīya tena bhāgaśeṣānayanam

liptānayanam ca | ekarūpāpanayanena kuṭṭākāraḥ bhāgalabdham ca ā

8161308400

[59]

anena kuṭṭākāreṇa pūrvalikhitaḥ bhāgaśeṣaḥ labhyate | tataḥ punar api tena
bhāgaśeṣeṇa trimśatā ca kuṭṭākāraḥ kriyate | trimśat kena guṇitā bhāgaśeṣam apa[nīya]
ṣaḍbhiḥ apavartitabhāgahārasya śuddham bhāgam dāsyati iti rāśiśeṣaḥ upalabhyate |
sa ca 5502346520 | evam punar api anena kuṭṭākāraḥ kriyate | dvādaśa kena guṇitā

rāśiśeṣam apanīya tasya eva ṣadbhiḥ apavartitabhāgahārasya śuddham bhāgam
dāsyati iti maṇḍalaśeṣah upalabhyate | sa ca

3225074097 | ayam apavartitabhāgahārabhājyābhyām utpannah iti ṣadbhiḥ gunitah
prāgupanyastoddeśakamaṇḍalaśeṣah bhavati iti sah pūrvalikhitah eva |
ekāpanayanena [kuṭṭākārah] bhāgalabdham ca 7607999356 | bhāgalabdhaiḥ pṛtahk
pṛthak rāśibhāgaliptānayanam |

[11]

evam candraśya api śeṣabhāgahārarāśī krameṇa āyutagunītāṣṭottaraśatena apavartya
sthāpanā ā2258

3449

ābhyām krameṇa kuṭṭākārah pūrvavat | ṣaṣṭyā ca bhāgaśeṣah labhyate, sa ca 2222 |
ekāpanayanena api kuṭṭākārah bhāgalabdham ca

1782

31 |

punar api bhāgaśeṣāpanayanena trimśatā ca kuṭṭākāram kṛtvā rāśiśeṣah labhyate | sa
ca 304 | ekāpanayanena api kuṭṭākārah bhāgalabdham ca

115

1 |

tataḥ punar api rāśiśeṣāpanayanena dvādaśānām ca kuṭṭākāram kṛtvā maṇḍalaśeṣah
labhyate, sa ca 1175 | ekāpanayanena api kuṭṭākārah bhāgalabdham ca

2012

7 |

atra ca ānītah maṇḍalaśeṣah eva aṣṭottaraśatena āyutagunītena abhyastah
prāgupanyastoddeśakamaṇḍalaśeṣah bhavati "candraśya āyutatādītāḥ kṛtarasāḥ" iti ādi

pūrvalikhitā eva |

evam maṇḍalaśeṣau sūryācandramasoḥ avagamya "adhikāgrabhāgahāram chindyāt
ūnāgrabhāgahāreṇa" iti anena pūrvakramenā gatamaṇḍalāni ahargaṇaḥ ca
pūrvalikhitaḥ eva | athavā yaḥ asau pūrvamaṇḍalaśeṣarāśinā anena krameṇa ānītaḥ
khakhaṣaḍghanena guṇitaḥ svakakṣyābhāgahāreṇa apahṛtaḥ yathāvihitaliptāśeṣarāśih
iti ataḥ idam vicintya[te ā khakha]ṣaḍghanaḥ kena guṇitaḥ sūryācandramasoḥ pṛthak
pṛthak abhihitaliptāśeṣam apanīya
svakakṣyoktabhāgahārābhyaṁ apahṛtam pṛthak śuddham bhāgam prayacchati iti evam
kuṭṭākāre kṛte sūryācandramasoḥ pṛthak pṛthak gatamaṇḍalāni tayoḥ maṇḍalaśeṣarāśī
ca labhyete | tāni maṇḍalāni maṇḍalaśeṣarāśī ca pūrvalikhitaḥ eva |

[kakṣyāvidhau tryagrakutṭākāraḥ]

evam tryagrakutṭākāraḥ api vigaṇyate | tat yathā ā

uddeśakah ā

tigmāṁśoḥ gaganāgnidasragaganam sūryābdhirāmeśavah
rāmāṅgābdhiviyatkr̄śānudahanāḥ śeṣaḥ smṛtaḥ māṇḍalaḥ |
indoh ambaraśūnyavedagaganam rāmābdhidasradvikam
randhrādryambarasaptabhūtayamalāḥ śeṣaḥ guroḥ ucyate ||
vyomābhrābdhiśarārthasaptagirayaḥ vasvaṅkaṣaṭṣaṭkakā
bhūtendvankarasāgnidṛṣṭanicayaḥ kakṣyābhidhānāt ayam |
tryagrāharganamaṇḍalāni vidhiva[t vācyāni] tatsaṅkhyayā
kuṭṭākāravicitratā parigatā yadi aśmakotkramāt || 26 ||

nyāsaḥ ā

raveḥ 330463534120230

472332265467510

candrasya 25707922430400

35330866200000

guroḥ 3691566987755400

5602254071175000

atra etayoh [ravicandrā]grayoh antaram

vyomāgnivasunavāṣṭaṣaḍrudrarasaśarabhūtādri-kṛtāmbarāgnayah, aṅkaiḥ api

304755611689830 |

[bhāgahārāgrā]ṇām sūnyāṅkaśarayamavasudrasraranavendubhiḥ apavartanam,

aṅkaiḥ api 196282590 | anena apavartite raveḥ navāṣṭāgnirasāmbarābdhiyamāḥ,

aṅkaiḥ api 2406389; candrasya sūnyāmbarākāśavyadaṣṭendavah, aṅkaiḥ api 180000;

agrāntaram apavartitam 1552637 |

etābhyaṁ apavartitabhāgahārābhyaṁ apavartitāgrāntareṇa kuttākāraḥ labdhaḥ

svarāṅgādrirāmāṅgarasādririrasavasulokāḥ, aṅkaiḥ api 3867663767 | ayam

ūnāgracchedena apavartitena apahṛtaḥ san aviśiṣṭaḥ svarāṅgādridahanāḥ 3767 | ayam

apavartitādhikāgrabhāgahāreṇa guṇitaḥ bhūyaḥ ca apavartitena

sūnyāṅkaśarayamavasudrasraranavendubhiḥ [guṇitaḥ] adhikāgreṇa yutah jātaḥ

dvicchedāgrarāśiḥ

sūnyāmbarodadhiviyadagniyamākāśaśaraśarādriśūnyendurasāmbarāṅgāṅkādri-

svarendavah, aṅkaiḥ api 1779606107550230400 | asya dvicchedāgrasya

trītyacchedāgreṇa saha kuttākāre kriyamāṇe nivṛttakarmacchedayoh abhyāsaḥ chedah

bhavati yamarasendumuniśarāśvirośādrijaladhiśara-

munirūpadahanādriśūnyāśṭāmbaranavamunivasvaṅgāṣṭayah, aṅkaiḥ api nyāsaḥ ā
16687908073175476257162000000 | atra upanyastatṛṭīyacchedena
adhikāgracchedasya bhāgah tatra śūnyam
avaśiyate | tat eva śūnyam kuṭṭākāraḥ iti pūrvaniśpannam dvicchedāgram tryagram tat
pūrvalikhitam evam | tasya khakakṣyotpannayojanānām eva aṅkarāśinaḥ anena
ākāśodadhisurūpaśikhiśarakṛtam anulokāṅkaravibhāgah 1293144531840 | labdham
ahargaṇaḥ śaravasurūpāṅgādriviśvāḥ 1376185 |

evam ayam kuṭṭākāravidhiḥ vicintyamānaḥ mahodadhijalataraṇavadaprameyaḥ iti
viramyate |

[ekāpacayena kuṭṭākāralabdhī]

ete grahakuṭṭākārāḥ ślokaiḥ api upanibadhyante | tat yathā ā
bhāskarādiśarīrāya bhāskarāyutatejase |
jagadutpattisamḥārahetave śambhave namah || 1 ||

kuṭṭākāraḥ ca lābhah ca dvandvataḥ bhagaṇāt itaḥ |
nirdiśyate kramāt atra tadvidām prītaye mayā || 2 ||

[sūryasya]

tigmāṁśoh [nayana]nabhorasābdhinandāḥ [94602]
tat labdham bhagaṇabhvam naveśudasrāḥ [259] |
rāśinām vasunagakham guṇāḥ śivāḥ ca [113078]
lābhah syāt śaraśaśinaḥ adrīrāmasaṅkhyā [3715] || 3 ||

rāmādrināganavabhūta[59873]samāṁśakasya
labdhah [atra rudra]viyadaṅkaśarāḥ [59011] pradiṣṭāḥ |
laptah adrivedarasarūpamataṅgagajah [81647] adhah
rūpāṅkadasrabhujagadvikanāgavedāḥ [4828291] || 4 ||

ekādrirandhrakharasāḥ tu [60971] vili[ptikānām
sañjātam eva] guṇakāram atah atra labdham |
śītāṁśurandhrakṛtabāṇaguṇāgniṣatka-
candrāśvi[216335491]saṅkhyam anu tasya ca tatparāṇām || 5 ||

dasranāga[munivedapayodhirūpa 144782 m] atra guṇakāram uśanti |
rūpanandajaladhīndunagāṅgadvidvināgavyadagni[30822671491]m adhah ca || 6 ||

śaḍvīṁśatih jaladhirandhra[9426]samānasaṅkhyah
jñeyah [pratatparabhavaḥ] guṇakārarāśih |
śītāṁśurandhramanunandaśāśāṅkadasra-
vyomābdhiśūnyaravayah [120402191491] khalu tatra labdham || 7 ||

ekah eva smṛtaḥ chedah cakrādīnām vivasvataḥ |
pratatparāntamā[nānām] khāmbareśumahībhṛtaḥ [7500] || 8 ||

[candrasya]

śītaraśmi[bhagaṇaiḥ] prakuṭṭite
saptarāmavasuṣaṭsvarādrayah [776837] |
labdharaśinicayah vyavasthitah
puṣkarāgnikṛtanāgabāhavaḥ [28433] || 9 ||

rāśitah̄ api rasadasratāpasā
vyomavedagaganāśvinaḥ [2040726] guṇaḥ |
tatra labdhanicayaḥ vikathyate
rudravahnirasanandapannagāḥ [896311] || 10 ||

candrasūryagaganābdhipāvakāḥ [340121]
bhāgaśeṣaguṇakārasamjñitah̄ |
bhūtabāṇaśaracandrakuñjarāḥ
sāgarāmbunivahāḥ ca [4481555] labdhakah̄ || 11 ||

nāgabāṇaśivadasra[21158]sammitah̄
liptikāsu vigaṇayya kīrtyate |
nandarudragirayah̄ aśvibhūdharāḥ
[aṣṭayah̄ atra 16727119] gaṇitena labhyate || 12 ||

vedaviśvarasarūpa [16134] sammitam
śītaraśmivikalāsamudbhavaḥ |
bāṇarūpaguṇaśakrapāvakāḥ
bhūtaṣaṭkamunayah̄ [765314315] paraḥ smṛtaḥ || 13 ||

tatpareṣu dhṛtibhūtaṣaṭkakāḥ [6518]
nirdiśanti guṇakārasaṅkhyayā |
ṛkṣanandaśaśirāmakuñjara-
vyomabāṇaśaradhārtavaḥ [18550831927] aparah̄ || 14 ||

tatparesu parataḥ ca kīrtitāḥ
rāmanandayamadasrakāḥ [2293] kramāt |
rudrabāṇagiridasrasāgarāḥ
bhūtaśatkatithinandavikramāḥ [391565427511] || 15 ||

amśāt ārabhya śītāṁśoh pañca [5] pañca [5] guṇaḥ paraḥ |
chedaḥ kalpyaḥ kramāt atra dantaśaila[732]samanvitaḥ || 16 ||

[candroccasya]

nandarśināgāgarasāḥ rasāṣṭa-
prāleyaraśmyadri[718667879]samānasaṅkhyāḥ |
indūcca[kasya guṇakah atra] bhacakradṛṣṭaḥ
candrāṅgalokayamadasrayamāḥ ca [222361] labdhaḥ || 17 ||

abdhīśu[dasrāśvinabhaḥ yamendu-]
śaṭka[61202254]pramāṇaḥ guṇakārarāśih |
labdhaḥ adrilocāśvinagāśvidasrāḥ [227237]
rāśikramāt atra vigaṇyamāṇaḥ || 18 ||

vedāṣṭabāṇāṅgarasāḥ navāṣṭa-
prāleyaraśmi[18966584]kramasaṅkhyayā uktāḥ |
amśakramāt agniyamāṅgasūrya-
śītāṁśudasrāḥ [2112623] gaṇitena labdhaḥ || 19 ||

liptāgataḥ dantanabhodrināga-
vyomeśavaḥ [5087032] asmin guṇakārarāśih |

nakṣatraśaṭparvatanandarandhra-
lokāgni[33997627]saṅkhyah kathitah atra labdhah || 20 ||

viliptikāyāḥ śaśisaptadanta-
kṣoṇīdharāḥ [73271] syuḥ guṇakārasaṅkhyā |
lokāṅgadiṅnāgakṛśānunandāḥ
dasrānvitāḥ [29381063] lābhām uśanti tajjñāḥ || 21 ||

aṣṭāṅgadhātrīdhararāmananda[93768]-
saṅkhyāsamānah atra hi tatparottham |
tanmātranandāgnisaśāṅkarūpa-
vyomāṅgabāṇāśviyamāḥ ca [2256011395] labdhah || 22 ||

pratatpa[rāyāḥ] kramaśaḥ abdhīśaila-
vasvaṅkaṣaṭkendu[169874]samānasaṅkhyah |
labdhah ca rudrāṣṭaśāśāṅkaloka-
śūnyeṣudasrāśviśarābdhidasarāḥ [245225031811] || 23 ||

rāśyādīnām kramāt [atra chedāḥ kalpyāḥ yathoktavat] |
dvādaśaḥ [12] ca tataḥ pañca [5] [pañca 5 yāvat tu] tatparam || 24 ||

[candrapātasya]

saptādricandrāṅganabhoṅgabāṇa-
dasrāṅga[625606177]saṅkhyam guṇakāram āhuḥ |
[lābhāḥ ca pātasya] gaṇeṣu samyak
dasrāśvaśūnyāśvinavapramāṇaḥ [92072] || 25 ||

śītāṁśuśūnyābdhikṛśānuṣaṭka-
pañceśurudram [115563401] pravadanti tajjñāḥ |
tricchidraśūnyābdhinabhaḥ yamāḥ ca [204093]
lābhaḥ [atra] rāśikramasamprabhūtaḥ || 26 ||

śītāṁśusaptāṅgakṛśānuveda-
ṣaṭlokaḍasrāḥ [23643671] guṇakārabhūtāḥ |
himāṁśunandāṅgayameśusūryāḥ [1252691]
lābhaḥ anu bhāgakramasaṅkhyayoktaṁ || 27 ||

aṣṭeṣuvasvinduṣaḍekavedāḥ [4161858]
proktāḥ kalānām guṇakārasaṅkhyāḥ |
pañcāgnidasrāṁbaralokaḍasra-
viśvaiḥ [13230235] samānam pravadanti labdham || 28 ||
vedāṅkabhūbhṛdyamasaptanāgāḥ [872794]
rāśiviliptāguṇakārayuktyā |
labdhaḥ krameṇa atra nagāmbarāṣṭa-
dasrādrivedāṅgarasendavaḥ [166472807] syuḥ || 29 ||

yah tatparebhyāḥ guṇakārarāśih
vasvaṅgaṣaṭsaptakṛśānavaḥ [37668] atra |
labdhaḥ api saptāṁbarabāṇa[sapta]-
saptāmbarendvagnikṛta[431077507]pramāṇaḥ || 30 ||

nandāgninandavasuṣaṭkaśāśāṅka[168939]saṅkhyam
prataparāṇām pravadanti guṇyam |

ekādrībāṇādrinaveśucandra-
śūnyāmbarāṣṭī śaśinah ca [116001597571] labdhah || 31 ||

bhagaṇānām dvika[2]cchedah rāśīnām dvādaśa [12] ucyate |
amśādinicayānām tu pañcakah [5] kathyate budhaiḥ || 32 ||

[bhaumasya]

bhaumasya viśvārkadigaṣṭayaḥ [16101213] syuḥ
bhaparyayāṇām guṇakārajātaḥ |
labdhah atra saptāgnisamudraloka-
dasra[23437] pramāṇam kathitam krameṇa || 33 ||

nandābdhiśūnyeṣuśāśāṅkadasra-
vedāgnayah [34215049] asmin guṇakāramānam |
rāśikramāt lokakṛtāṅgasapta-
nandeṣavah [597643] labdhicayam niruktam || 34 ||

bhāgapramāṇam kṛtaśūnyaveda-
nandenduviśvam [1319404] pravadanti guṇyam |
labdhasya candrāṅkakṛśānucandra-
cchidrāṅga[691391]tulyā vihitā atra saṅkhyā || 35 ||

[laiptah tu] dasrāṅkaśāśāṅkaloka-
śaṇṇāgarūpāṇi [1863192] guṇah guṇajñaiḥ |
dṛṣṭā atra labdhih tu śaśāṅkaloka-
[saptāmbarāṣṭeṣu] gajeṣu [58580731] tulyam || 36 ||

viliptikānām rasasatkadasra-
pañceśurūpāṇi [155266] guṇah pratiṭah |
lābhaḥ śarārthāṅgakṛśānuśūnya-
randhrāśvinandadvika[292903655]tulyam āhuḥ || 37 ||

lokāṅgadasrāśṭadhr̥ti[188263]pramāṇam
guṇyam kramāt tatparasaṅkhyayā asmin |
bāṇāgniṣaṭsaptanagāmbarāṅka-
bāṇāgniṣaṭsaptanagāmbarāṅka-
śūnyāgniśītāṁśuyamāḥ ca [21309077635] labdhah || 38 ||

dasrāśvisaptāśṭakṛta[48722]pramāṇam
prataparāṇām nicayah guṇasya |
rūpeśuṣaṭkāgninabhośviveda-
vasvaṣṭaśūnyāgniguṇāḥ ca [330884203651] labdhah || 39 ||

maṇḍalānām gṛhānām ca chedah dvādaśakah [12] smṛtaḥ |
pañca [5] pañca [5] pareśām tu bhāgādīnām iti sthitih || 40 ||

[budhaśīghroccasya]

aṅgādridasrakṣiti[bhṛdgajeṣu-
lokāśvi 23587276 saṅkhyam śāśijasya guṇyah |
bhaparyayāṇām navasūryanāga-
śaḍdasra[268129]saṅkhyam kramaśah ca labdhah || 41 ||

rāśikrame[na aṅka]śaśāṅkanāga-
śaṇṇandanāgeśusamah [5896819] guṇah syāt |
saptāṣṭalokābdhinabhassanāga[804387]-
nirdiṣṭasamkhyah vidhivat ca labdhaḥ || 42 ||

bhāgeṣu vedāśvisamudrananda-
bāṇāṣṭacandrān [1859424] guṇakāram āhuḥ |
chidrāgnilokāṅkanabhaḥ aṅgaśaila[7609339]-
samkhyāpramāṇam khalu tatra labdham || 43 ||

siddham kalānām yamabāṇananda-
vedeṣucandrān [154952] guṇakāram āhuḥ |
lābhaḥ śarāṅkāṅgarasābdhiśunya-
vasvagni[38046695]saṅkhyah gaṇakaiḥ niruktaḥ || 44 ||

rāśih viliptāguṇakārasamjñah
dasrādricandrāgnitithi[153172]pramāṇam |
nandādricandrāṣṭagirīṣuṣaṭka-
bhūtāśvidasrā [2256578179] vidhinā atra labdhaḥ || 45 ||

uktaḥ guṇah tatparasaṅkhyayā atra
pūrṇāṅkasamskāradhṛtim [184890] vadanti |
candrāṅkaśūnyeśurasābdhicandra-
lokābdhilokāṣṭi[163431465091]samaḥ ca lābhaḥ || 46 ||

ṣaṭṣaptadasrāṣṭanabhaḥ sarūpam [108276]
pratatparāṇām guṇanā atha labdham |

candrāṅkavasveṣuṣadekadasra-
ṣaṭpañcadasrābdhiśiloccayā arthān [5742562165891] || 47 ||

vimśatiḥ [20] ca tathā ṣaṣṭiḥ [60] chedah maṇḍalarāśijah |
bhāgādīnām kramāt pañca [5] pravadanti manīṣinah || 48 ||

[guroḥ]

aṣṭau guṇavyomakṛśānubhūta-
śūnyāṅgaśailā [76053038] guṇajah samūhah |
pañceśubhūtādrisudhāmayūkhāḥ [17555]
labdhaḥ guroḥ syāt bhagaṇakramenā || 49 ||

vedādridasrāgniśarāśvināga-
dasrā [28253274] guṇah rāśividhānadrṣṭah |
labdhaḥ aṅkatattvāśṭanaga[78259]pramāṇah
nirucyate asmin gaṇitatprasiddheḥ || 50 ||

nandādrivasvaṣṭanabhaḥ adrivedā [4708879]
rāśih guṇākhyah khalu bhāgajātah |
bhūtāṅkatigmāṁśunavāgni[391295]tulyam
lābhapramāṇam pravadanti tajjñāḥ || 51 ||

saptenduśailāmbaralokanāgān [830717]
liptākramāt guṇyam uśanti tajjñāḥ |
nandendudhṛtyabdhīśāśāṅkavedā [4141819]
lābhaḥ kalānām kathitah vigaṇya || 52 ||

viliptikānām śaśiṣatkanāgā
dasrāṣṭaṣaḍbhiḥ [682861] guṇakārajātam |
rūpāṇkanandādrinagāśviveda-
śūnyāśvinaḥ [204277991] asmin pravadanti labdham || 53 ||

dantāṅganandādrisudhāmayūkha[179632]-
saṅkhyāḥ guṇaḥ ca atra hi tatparāṇām |
saptāmbarādryaṣṭiyamābdhidasarān
dantaiḥ sametān [3224216707] kathayanti labdham || 54 ||

ekāgnirāmeśudhṛti[185331]pramāṇam
pratatparāṇām guṇajā atra labdham |
rūpādriśītāṁśunagāśṭaveda-
vyomāṇkatanmātranavāṇkacandrāḥ [199590487171] || 55 ||

maṇḍalānām ca rāśīnām chedāḥ dvādaśakah [12] smṛtaḥ |
bhāgaliptādirāśīnām chedāḥ pañca eva [5] kathyate || 56 ||

[śukraśīghroccasya]

nandābdhiśūnyāṅgakṛtābhraśūnya-
śailā [70046049] bhṛgūccasya guṇaḥ gaṇānām |
lābhaḥ abdhīrāmādriśivāgni[311734]tulyaḥ
saṅkhyāvidhānakramasaṅkhyayā uktam || 57 ||

pakṣeṣuvedāmbaracandraśaila-
nāgāgnayaḥ [38710452] rāśiguṇaḥ pradiṣṭaḥ |

labdhah̄ niśānāthahutāśānāgni-
śailāṅgaśūnyāśvisamaḥ [2067331] samūhah̄ || 58 ||

dasrāpagānāthaśilocayendu-
[śarābdhiṣaṭ 6451742 saṅkhyā]samaḥ aṁśaguṇyah |
tanmātrabhūtāṅgarasāgniloka-
vyomendavah̄ [10336655] rāśih̄ atha atra labdhah̄ || 59 ||

aṅgāṅgapakṣodadhicandraśakrā [1414266]
rāśih̄ kalānām guṇakārajātah̄ |
[śaśāṅka]lokāṅkaśaśāṅkabāṇa-
cchidreṣulokendu[135951931]samaḥ atra lābhaḥ || 60 ||

aṣṭāśvināgāgnikṛtāṅga[643828]tulyam
prāhuḥ guṇākhyam vikalāsu jātam |
labdhah̄ ca rūpādrivivasvadagni-
vedāgniśītāṁśunagāgnayah [3713431271] syuḥ || 61 ||

saṅkhyākramāt tatpararāśiguṇyah
pakṣāṣṭabhbhṛddahanārka[123782]saṅkhyah̄ |
lokāṣṭapakṣāṅkayameṣuṣaṭka-
rāmāṣṭapakṣābdhi[42836529283]samaḥ atra lābhaḥ || 62 ||

pratatparāṇām guṇakārarāśih̄
aṅgakṣamābhṛdgaganāṅka[9076]saṅkhyah̄ |
rūpeṣuvasvaṅgaśadādripakṣa-
pañcābdhināgān dhṛtikam ca [188452766851] labdhah̄ || 63 ||

maṇḍalānām sarāśīnām chedah dvādaśakah [12] smṛtah |
śakrāripūjyabhāgādeh pañca [5] pañca eva [5] kathyate || 64 ||

[śaneh]

rudrāśvi[bhūtāṅganabhognirudrā 113065211]
gu[ṇah pradi]ṣṭah bhagaṇeṣu tajjñaiḥ]
tigmadyuteh ātmajalabdharāśih
dasrābhrabāṇāmbararātrināthāḥ [10502] || 65 ||

vedāṣṭabhūtāṅkakṛśānurūpa-
candrartavaḥ [61139584] asmin guṇakārarāśih |
rāśikramāt labdhasamaḥ tu saṅkhyāḥ
saptābdhicandrāṣṭarasā [68147] niruktāḥ || 66 ||

chidrāgnicandrāṅgaśarāṅkanāga-
prāleyaraśmi[18956139]prabhavaḥ guṇākhyāḥ |
amśāvadheḥ agnirasāṣṭaloka-
rāmartavaḥ [633863] lābhābhavaḥ samūhaḥ || 67 ||

saptābdhiśailodadhiṣṭakadasrān [264747]
drṣṭah samūhaḥ guṇakārajanmā |
liptākramāt atra vigaṇyamānaḥ
rāmāṅgarudrāgniśarāḥ [531163] ca lābhāḥ || 68 ||

sīṭāmśudasrāmbararudranāgā [811021]

rāśih viliptāprabhavah guṇasya |
saptāṣṭanetrāṅkayamāṅgasapta-
nanda[97629287]pramāṇā vihitā atra labdhiḥ || 69 ||

nirdiśyate tatpararāśiguṇyah
sūryāgniśūnyāṅka[niśādhināthāḥ 190312] |
lābhah adriśūnyeṣu[śarāṅga]bhūta-
vedādrirāmāṁṛtasanmayūkhāḥ [1374565507] || 70 ||

pratatparāṇām navaśūnyabāṇa-
bhūtāṣṭacandrā [185509] guṇanā atha lābhah |
rudrāśvivedāṅkasamudrapakṣa-
cchidrāgniśūnyam phaṇibhṛtsametam [80392494211] || 71 ||

catuṣkah [4] bhagaṇacchedah rāśinām dvādaśa eva [12] ca |
chedah krameṇa pañca [5] uktaḥ saurasya lavataḥ sphuṭah || 72 ||

[candrakendrasya]

agnīśunandāgniśāśāṅkasūrya-
vedāgnayah [341213953] syuḥ bhagaṇotthaguṇyah |
śītāṁśukendrasya guṇāṅkarūpa-
rāmāṣṭalokārka[12383193]samaḥ ca labdhaḥ || 73 ||

tadrāśitah rāmanabhaḥ adrisapta-
dasrāśvivasvadri[78227703]samaḥ guṇah syāt |
labdhaḥ aśvināgāmbarapannagāṅga-

śūnyābdhirāmā [34068082] gaṇakaiḥ niruktah || 74 ||

rāmāṅgadasrādribhujaṅgacandra-
ṣaṭkāśvi[26187263]saṅkhyah amśakajah guṇah syāt |
rūpāṅgasapteṣuṇendudasra-
vedāgni[342135761]saṅkhyam pravadanti labdham || 75 ||

liptāgataḥ asmin guṇakārarāśih
vedāśvināgāgninagāgnivedāḥ [4373824] |
pañcendurāmāśviguṇāḥ[ṅganāga-
neṭrābdhi]lokāḥ [3428632315] khalu tatra labdhaḥ || 76 ||

viliptikānām guṇakārarāśih
saptāgnināgāgniśāśāṅka[13837]tulyaḥ |
nandādrināgasvaraśūnyanāga-
śūnyeṣuṣat[650807879]tulyakam atra labdham || 77 ||

drṣṭah guṇah tatpararāśilabdhah
śūnyāṣṭanāgāgniravi[123880]pramāṇam |
rudrāmbarādryaṅgakṛtāgnirandhra-
bāṇāṅkavedāḥ saguṇāḥ ca [34959346011] labdhaḥ || 78 ||

pratatparāṇām jinavahnidasra-
śakrā [142324] guṇah tatra [tu] labdharāśih |
rūpeṣudasrāṅkavasusvarāśvi-
nāgeṣunāgāṅkanabhaḥ jināḥ ca [24098582789251] || 79 ||

chedah apavartakah jñeyah rāśīnām dvādaśātmakah [12] |
bhāgādīnām kramāt chedah pañca [5] dṛṣṭah kramāt budhaih || 80 ||

[adhividasya]

randhraśūnyeśudasrādriśatka[672509]tulyah adhikah gunah |
labdharaśih kramāt vyom[saptāñā]āmbaradasrakah [20670] || 81 ||

[avamadivasya]

candrāgnayambarasaptābdhiyamaśatkah [6247031] avamah gunah |
labdhaḥ api navavedādriśailarandhrāṇi [97749] kīrtyate || 82 ||

[sūryāpakramasya]

apakramasya saptābdhipuṣkarāṇi [347] gunah kramāt |
labdharaśih kramāt dṛṣṭah [rūpaveda]niśākaraḥ [141] || 83 ||

[adhimāsasya]

yugādhimāsaiḥ municandraloka-
vyomāmbarāṇkah dhṛtayah ca [18900317] dṛṣṭah |
gunyah atra labdhaḥ api śarāṣṭaśūnya-
navendavaḥ [19085] asmin bhaganeṣu nityam || 84 ||

śītāṁśurandhrāgninabhaḥśivāśvi-
suryaiḥ [122110391] samānah gunakārarāśih |

lokābdhiṣaṇṇandamunīndra[1479643]saṅkhyah
labdhaḥ atra rāśih khalu rāśijātaḥ || 85 ||

rasāgnivasvabdhikṛśānusapta-
vedāśvinah [24734836] syuḥ guṇakārarāśih |
rūpeśubhūtaikanavāṇikanāgā [8991551]
labdhaḥ krameṇa amśakakarmasiddhaḥ || 86 ||

vasvadivedendragajāgni[3814478]saṅkhyah
liptāsu dṛṣṭah guṇakārarāśih |
nandendunāgādrinavaikaloka-
nāga[83197819]pramāṇam pravadanti labdham || 87 ||

nandābdhipañcāśvimanu[142549]pramāṇam
dṛṣṭah viliptāguṇakārasiddhiḥ |
rudrādrisamśkāraśarāṇganāga-
prāleyaraśmim [186548711] pravadanti lābhām || 88 ||

saṅkhyā [guṇasya] api ca tatparāṇām
rasā nabhaḥ aṅgābdhikṛśānucandrāḥ [134606] |
lokāṣṭaṣaṇṇandakṛśānudasra-
cchidrāṇgabāṇāḥ sadiṣaḥ ca [10569239683] labdhaḥ || 89 ||

pratatparebhyah arkakṛtāgninanda[93412]-
rāśih niruktah guṇakārajātaḥ |
ekāgnibhūtāṣṭa[tribhūpa]nāga-
vyomābhravedābdhi[440081638531]samaḥ atra lābhaḥ || 90 ||

bhagaṇānām sarāśinām dvādaśa [12] eva apavartakah |
pañca [5] pañca eva [5] śeṣāṇām chedah asmin apavartane || 91 ||

iti bhāskarasya kṛtau āryabhaṭatantrabhāṣye
gaṇitapādaḥ samāptaḥ ||

Kālakriyāpādaḥ

[maṅgalācaraṇam]

sūryendukhāgnimaruḍapksitidīkṣitākhyam
mūrtyaṣṭakam sakalalokahitārthabhāvam |
yah abhūt svayam hi karuṇātanuh aprameyah
tasmai namaḥ tribhuvanasthitaye śivāya ||

[kālavibhāgaḥ kṣetravibhāgaḥ ca]

atha gaṇitānantaram kālakriyā prastūyate | atha kah kālah, kā vā kriyā? atra kecit
vadanti ā "kriyāvyatiriktaḥ kālah" | apare ā "kriyā kālah" iti | kriyāvyatiriktaḥ astu kālah
[kriyā vā], kim etena | asmākam tu sūryācandramasoh yah paraḥ viprakarsah saḥ
ardhamāsaḥ | yah ca tayoh sannikarsah sa māsaḥ | evam dvādaśa māsaḥ samvatsaraḥ
iti ādi kālah | kriyā vyāpāraḥ | kālasya kriyā kālakriyā | kālaparijñānārthā kriyā iti yāvat |
sā ca kriyā gatiḥ | tayā kriyayā
kālah jñāyate iti etat pratipādayiṣyati | tat yathā ā

varṣam dvādaśamāsāḥ trimśaddivasāḥ bhavet sa māsaḥ tu |
ṣaṣṭih nādyah divasāḥ ṣaṣṭih ca vinādikā nādī || 1 ||

varṣam abdaḥ samāḥ samvatsarāḥ iti paryāyāḥ | ayam varṣaśabdaḥ napumsakalingaḥ
samāyām vartate | tasya varṣasya pramāṇam dvādaśa māsaḥ | dvau ca daśa ca
dvādaśa | māsaḥ samvatsarasya śākhāḥ | trimśaddivasāḥ bhavet sa māsaḥ tu | trimśat
saṅkhyā | divasāḥ dināni ahāni iti paryāyāḥ | bhavet syāt | sa yaḥ asau māsaḥ abhihitāḥ
sāḥ trimśaddivasāḥ iti arthaḥ | ṣaṣṭih nādyah divasāḥ | tasya divasasya ekasya
pramāṇam ṣaṣṭih nādyah | nādyah ghaṭikāḥ | ṣaṣṭih
ca vinādikā nādī | tasyāḥ nādyāḥ pramāṇam vinādyah ṣaṣṭih | vinādyah vighaṭikāḥ |

atra ucyate ā "varṣam dvādaśa māsaḥ" iti ādi na ārabdhavyam, lokaprasiddhatvāt |
sarveṣu eva ayam nyāyah lokavedaprasiddhyā aṅgīkaraṇīyah | "varṣam
dvādaśamāsāḥ" iti ādi vinā api lakṣaṇena lokaḥ jānīte, tathā ca bhṛtakēbhyāḥ
bhuktavetanam dadāti | yadi lokaprasiddham api abhidhīyate tadā atra bahu vaktavyam
jāyate | "nr̥si yojanam", [gītikāī, 7] "scāṅgulaḥ ghahastaḥ nā" [gītikāī, 8] iti atra
yava-sarṣapa-yūka-liksā-vālāgra-rathareṇu-trasareṇusthūlasūkṣmaparamāṇūnām
pramāṇam vaktavyam | traīrāśike ca anekajanapadavyavahārātmikā paribhāṣā
vaktavyā | atha yadi api lokaprasiddhiḥ aṅgīkriyate tathā api tu "vargākṣarāṇi varge"
[gītikāī, 2] iti atra vargāvargākṣarasvaranirūpaṇam vaktavyam eva | kutaḥ?
lokāprasiddheḥ | [yadi evam tadā] vyākaraṇe vargāvargākṣara[svaranirūpaṇam
anartha]kam | na eṣa doṣaḥ | lokaḥ pūrvācāryāḥ abāhyaśāstrāṇām
praṇetāraḥ iti uktam | "vargākṣarāṇi varge" [gītikāī, 2] iti atra
vargāvargākṣarasvaranirūpaṇāyām vyākaraṇam abāhyam śāstram | "gurvakṣarāṇi
ṣaṣṭih vinādikā" [kālakriyāī, 2] iti atra gurvakṣarāṇām lakṣaṇam vaktavyam | yadi
"varṣam dvādaśa māsaḥ" iti ādi granthāḥ na ārabhyate tadā etat sarvam
lokaprasiddhyā setsyati | tasmāt apratyāyanam eva astu | na eṣa doṣaḥ |

anārabhyamāṇāyām asyām paribhāṣāyām sāvanasya eva mānasya ete bhedāḥ syuḥ
na sauracāndranākṣatrāṇām,
yasmāt sāvanam eva ekam mānam lokaprasiddham, na sauracāndranākṣatrāṇi | tat
sarveṣu eva māneṣu iyam eva paribhāṣā yathā syāt iti [sūtram ārabdhavyam] |

anyathā hi "ravimāsebhyah adhikāḥ tu ye cāndrāḥ" [kālakriyāí, 6] iti atra
ravibhagaṇānām dvādaśa guṇakāraḥ na labhyeta, "śāśidivasāḥ vijñeyāḥ bhūdivasonāḥ
tithipralayāḥ" [kālakriyāí, 6] iti atra śāśidivasānām trimśatkaḥ guṇakāraḥ na labhyeta,
"śaṣṭih nāḍyaḥ divasāḥ" iti atra api horāśāstrāvirodhena śaṣṭih nāḍyaḥ parikalpitāḥ |
anyathā hi icchayā vibhāgaḥ divasasya śakyate parikalpayitum | icchayā vibhāge
parikalpyamāne kah punar horāśāstravirodhah?
ucyate ā

ādyantarāśyorudayapramāṇam dvau dvau muhūrtau niyatam pradiṣṭau |

iti atra dvināḍikāḥ muhūrtah vyākhyāyate | sā ca nāḍikā divasasya śaṣṭibhāgaḥ iti |
anyathā parikalpyamāne ayam arthaḥ anyathā syāt |

katham punar divasasya śaṣṭibhāgaḥ sādhyate iti atra abhidhīyate ā atra kecit bruvate ā
"suvarṇarajatatāmrāṇām anyatamam pātram ardhaṛttākāram śaṣṭipalapānīyādhārakam
pūrakam nisrāvakam vā ghaṭike" iti | na eṣa niyamah | yāvat palāni śaṣṭih pānīyam
prasravati āpūryate vā, tāvatā nāḍikākālah iti | prājñāḥ tu na evam iti manyante | katham
tarhi? ahorātraprasrutasya pānīyasya śaṣṭibhāgaḥ ghaṭikāpramāṇaḥ iti sthūlaḥ kalpaḥ,
sūkṣmaḥ tu samāyāmavanau
nirdiṣṭākārasya śaṅkoh ghaṭikācchāyām aṅkayitvā ghaṭikā sādhyate, ghaṭikāchidram ca
chāyākālavaśāt uktyā yojayitavyam || 1 ||

gurvakṣarāṇi ṣaṣṭhī vinādīkā ārkṣī ṣaṭ eva vā prāṇāḥ |
evam kālavibhāgah kṣetravibhāgah tathā bhagaṇāt || 2 ||

gurvakṣarāṇi ṣaṣṭhī vinādīkā ārkṣī | gurūṇi ca tāni akṣarāṇi ca gurvakṣarāṇi, ṣaṣṭhī
vinādīkā ārkṣī | yāvatā kālena ṣaṣṭhī gurvakṣarāṇi paṭhitāni tāvān kālah vinādīsamjñitaḥ
| "gurvakṣarāṇi ṣaṣṭhī vinādīkā" iti anena sarveṣām eva
saurasāvananākṣatracāndrāṇām mānānām vinādīkākālatulyatāyām prasaktāyām
tadviṣayanirūpaṇārtham āha ā ārkṣī | katamā vinādīkā gurvakṣarāṇi ṣaṣṭhī? ārkṣī, na
śeṣāḥ | ṛkṣāṇi nakṣatrāṇi | nakṣatraśabdena nākṣatram
mānam parigṛhyate | ṛkṣāṇām ayam kālah ārkṣaḥ | ayam ca kālah
vinādīkābhidhīyamānaḥ strītvam pratipadyate iti strīlīṅganirdeśena vinādīkā iti uktam |

ṣaṭ eva vā prāṇāḥ, prāṇāḥ ucchvāsāḥ, ārkṣyavīnādīkāyāḥ pramāṇam | ārkṣyam ca
mānam bhacakrabhrāmaṇakālam | yataḥ āha ā "prāṇena eti kalām bham" [gītikāí, 6] iti |
ucchvāsakālena bhacakram kalām paryeti, ṛkṣacakram iti arthaḥ | atra ārkṣī vinādīkā ṣaṭ
vā prāṇāḥ [tulyāḥ] | ārkṣībhiḥ vinādīkābhiḥ [daśabhiḥ] ekāṁśakaḥ | atah
jyotiścakrasambandhīnaḥ prāṇāḥ liptāsankhyāḥ iti prāṇaiḥ jyādikarma pravartate |
anyathā hi "[pha cha] kalārdhajyāḥ"
[gītikāí, 12] iti uktatvāt prāṇaiḥ jyāgraḥaṇam na prāpnoti | anyat ca ā sāmānyena eva
"ṣaṭ vā prāṇāḥ vinādīkā" it ucyamāne sarvamānānām eva vinādīkākālasya
tulyatāprasaṅgah | avaśiṣṭānām mānānām vinādīkāyāḥ pramāṇam nādīkāyāḥ
ṣaṣṭibhāgah eva | na tasyāḥ vinādīkāyāḥ avayavapramāṇābhidhānam kriyate,
prayojanābhāvāt |

gurvakṣareṣu madhyamavṛttigrahaṇam | "gurvakṣarāṇi ṣaṣṭhī" iti atra madhyamāyām
vṛttau ṣaṣṭhī gurvakṣarāṇi vinādīkākālah iti vaktavyam | anyathā hi tisṛṣu api vṛttiṣu
aviśeṣeṇa grahaṇam prāpnoti | tat yathā ā drutāyām vṛttau ṣaṣṭhī gurvakṣarāṇi alpena

kālena paṭhyante, bilambitāyām mahatā kālena iti, madhyamāyām punar na alpena, na mahatā kālena | tat tarhi madhyamavṛttigrahaṇam kartavyam | katham anucyamānam avagamyate? lokaprasiddheḥ

| tat yathā ā loke anirdiṣṭeṣu kāryeṣu madhyamaprāptih | evam atra api ā "māsānte pakṣasya ante sa hi ākāśe deśe svam miśram vakram kāntam vṛttam pūrṇam candram sattvāt rātrau te kṣutkṣāma prādante śvetah prājyah krūrah tasmāt vā ante harmyasya antah samsuptasya ekānte kartavyā" | etāni ṣaṭṭih gurvaksarāṇi vināḍikākālah | ṣaṭ eva vā prāṇāḥ | prāṇāḥ ucchvāsāḥ | te vā ṣaṭ, tasyāḥ eva arksyavīnāḍikāyāḥ kālah | atra api svasthasya aśrāntasya nīrujasya yogināḥ prāṇāḥ parigṛhyante | atra api svasthāḥ na mahatā kālena ucchvasiti | evam [a]śrāntah api | yogī na punar vyānavaśān mahatā kālena ucchvasiti | atra truṭi-truṭyavayavādayah kālāvayavāḥ kasmāt na ucyante? evam manyante ā taiḥ vyavahārah na asti iti | vyavahārārtham ca kālāvayavagrahaṇam iti |

evam kālavibhāgah | evam varṣamāsadivasaghaṭikāprāṇāḥ kālavibhāgah | kim artham idam abhidhīyate ā "evam kālavibhāgah" iti | nanu ca kālavibhāgah nirdiṣṭah | evam tasya nirdiṣṭasya grahaṇam "evam kālavibhāgah" iti | asya anabhidhānāt śakyate jñātum yathā aprapañcitapramāṇāḥ kālavibhāgah iti | na esa doṣāḥ | "evam kālavibhāgah" evamprakārah kālavibhāgah iti arthaḥ | prakārārthe tu vyākhyāyamāne anye api kālavibhāgāḥ parigṛhītāḥ bhavanti

| tat yathā ā pañcasamvatsarāḥ yugam, dvādaśamāsāḥ samvatsarāḥ, dvau māsau ṛtuḥ te ca vasanta-grīṣma-varṣā-śarad-hemanta-śiśirākhyāḥ, ṛtutrayam ayanam, māsārdham pakṣaḥ śuklaḥ kṛṣṇaḥ ca, divasarātricaturbhāgah yāmaḥ, dvināḍikāḥ muhūrtaḥ, iti evam ādi |

kṣetravibhāgah tathā bhagaṇāt | kṣetram bhagolah | tasya kṣetrasya vibhāgah | tathā tena eva prakāreṇa | yathā kālasya vibhāgah, kṣetrasya api bhagaṇāt | kālasya varṣāt prabhṛti vibhāgah uktaḥ, kṣetrasya tu bhagaṇāt prabhṛti pravṛtteḥ | tat yathā ā

dvādaśarāśayah bhagaṇah, rāśih trimśat bhāgāḥ, ṣaṣṭih liptā bhāgah, ṣaṣṭih viliptā liptā,
ṣaṣṭih tatparā viliptā iti īdrśah | uddeśakah ā

bhagaṇah rāśih bhāgah kalā ca vikalā ca tatparā ca eva |
kṣetrasya etāḥ samjñāḥ kālavibhāgena tulyāḥ syuḥ ||

[dvīyogaparijñānam]

dvīyogaparijñānāya āryāpūrvārdham āha ā

bhagaṇāḥ dvayoh dvayoh ye viśeṣaśeṣāḥ yuge dvīyogāḥ te |

bhagaṇāḥ nirdiṣṭāḥ eva grahāṇām gītikāsu | dvayoh dvayoh iti vīpsāgraḥanām
tryādiniṇṛtyartham | ye viśeṣaśeṣāḥ, dvayoh dvayoh grahayoḥ bhagaṇānām ye
viśeṣaśeṣāḥ bhagaṇāḥ tāvantah tayoḥ yuge dvīyogāḥ babhūvuḥ bhaviṣyanti vā |

atra dvayoh dvayoh bhagaṇaviśeṣāḥ eva tayoḥ yogāḥ iti katham avasīyate, na punar
tayoḥ abhyāsaḥ yogaḥ vā? ucyate | tat yathā ā dvau aśvau ca parimaṇḍalārohe
parikalpitau | tatra ekasya kakṣyā ṣaṣṭih dhanuṣām, aparasya trimśat | tau
pañcadaṇḍagatī | mahati maṇḍale yāvat maṇḍalacaturbhāgam gacchati tāvat alpe
maṇḍale ardham gacchati | yāvat mahati maṇḍale ardham gacchati tāvat sakalam
alpamaṇḍalam gacchati | evam yāvat mahati maṇḍale ekaḥ parāvartah
tāvat alpe maṇḍale parāvartadvayam, tāvati ca tayoḥ ekaḥ yogaḥ | evam graheṣu api
yojyam | yujyate etat yadi grahāḥ samagatayah | samagatayah grahāḥ iti
pratipādayiṣyati |

uddeśakah ā guroḥ aṅgārakasya ca yuge kiyantah yogāḥ iti |

labdham yogāḥ gagana[jala]darasayamāgnirandhraśāśānkāḥ [1932600] | evam
sarveśām api |

kaḥ punar atra dvīyogānām viniyogaḥ? ucyate | yadi caturyugāharganēna iṣṭagrahāyoh
dvīyogāḥ labhyante, [tarhi] kāliyātāharganēna kiyantah iti labdham samatikrāntāḥ
dvīyogāḥ | śeṣam gatagantavyam kṛtvā yugadviyogaiḥ vibhajet | labdham
gatagantavyadivasaḥ iti ekaḥ viniyogaḥ | [śeṣam ṣaṣṭyā saṅguṇya yugadviyogaiḥ
vibhajet labdham ghaṭyādi |] yadi caturyugāharganēna iṣṭagrahāyoh dvīyogāḥ labhyante
[tarhi] kāliyātāharganēna kiyantah iti labdham samatikrāntāḥ
dvīyogāḥ | śeṣe dvādaśādiguṇite rāsyādilabdhiḥ | taiḥ dvīyogaṛāśyādibhiḥ
mandagatigrahaḥ yuktah śīghragatigrahaḥ bhavati | śīghragatiḥ ca dvīyogaṛāśyādihīnah
mandagatiḥ bhavati iti aparaḥ viniyogaḥ | dvīyogaiḥ ca rāsyādīn ānīya tayoḥ api
bhagaṇasamāsenā api bhagaṇasamāsagatabhagaṇarāśyādīn vidhāya "antarayuktam
hīnam" [gaṇitaī, 24] iti anena ekatra kṣipet ekatra viśodhayet, kṣiptaviśodhitayoḥ
ardham tayoḥ gatabhagaṇarāśibhāgaliptāḥ iti anyaḥ viniyogaḥ
| kuṭṭākāraviniyogaḥ tu pradarśitah eva iti |

[yuge vyatīpātasamkhyā]

vyatīpātajñānāya āryāpaścārdham āha ā

raviśāśinakṣatragaṇāḥ sammiśrāḥ ca vyatīpātāḥ || 3 ||

nakṣatrāṇām gaṇāḥ nakṣatragaṇāḥ | nakṣatrāṇi aśvinyādīni | raviḥ ca śāśī ca raviśāśī |
raviśāśināḥ nakṣatragaṇāḥ candrādityabhagaṇāḥ iti yāvat | te ca
rasadahanaśikhiguṇaśailākāśayamartavaḥ [62073336] | ete vyatīpātāḥ | sammiśrāḥ ca

vyatīpātāḥ | sammiśrāḥ ekīkṛtāḥ | kena sammiśrāḥ? anyasya aśrutatvāt,
raviśāśibhagaṇāḥ nakṣatragaṇaiḥ eva | te eva vyatīpātāḥ dviguṇitāḥ iti arthaḥ | te ca
dviśailarasartumanukṛtaravayah [124146672] |

atha etau vyatīpātau abhihitau dvādaśaśadrāśyātmakau | atra idam praśṭavyam ā [kim
idam] vyatīpātayoh udāharanam āhosvit lakṣaṇam iti? yadi idam udāharanam tadā
sarvam iṣṭam setsyati, tat astu udāharanam iti | tat yathā ā candrādityau sphuṭīkṛtau
yadi ekatra dvādaśarāśayah tadā vyatīpātāḥ | nanu ca loke dvādaśarāśikāḥ vaidhṛtaḥ iti
prasiddham ? na eṣaḥ dosaḥ | samjñākṛtaḥ bhedaḥ na phalam prati, yasmāt
vyatīpātasya vaidhṛtasya ca tulyam phalam
bhagavadbhiḥ gargādibhiḥ upadiṣṭam | tau eva sūryācandramasau sphuṭau ekatra yadi
śadrāśayah tadā api vyatīpātāḥ |

atha vyatīpātasya atītaiṣyaparijñānārtham traīrāśikam ā yadi sūryācandramasoh
sphuṭabhuktisamāsenā ṣaṣṭīghaṭikāḥ labhyante, [tadā] anena atītaiṣyena kiyatya iti
labhdam ghaṭikāḥ vighaṭikāḥ ca | athavā atītaiṣyavyatīpātakālikau sūryācandramasau
jñātum icchatī, tadā atītaiṣyena saha traīrāśikam ā yadi sūryācandramasoh
sphuṭabhuktisamāsenā sūryabhuktih candrabhuktih vā labhyate, [tadā] anena
atītaiṣyasūryācandramasoh bhuktisamāsenā kim iti bhuktih
labhyate | tena rahitau sahitau sūryācandramasau vyatīpātakālikau | evam sthūlā
vyatīpātabhuktih | yathā sūkṣmā bhavati tathā pradarśyate | uktam ca ā

nānāyane vyatīpātāḥ tulyāpakramayoḥ tayoḥ |
uddeśaḥ tasya cakrārdham vikṣepam ca adhikonakam ||
[mahābhāskarīyam, 4.36]
iti | sūryācandramasau nānāyane tulyāpakramau yadā bhavataḥ tadā vyatīpātāḥ,
candrasya vikṣepasahitāḥ rahitāḥ vā apakramāḥ | asmin kila vyatīpātayoge

ksīrataruśākhāvacchede vigataksīratā || 3 ||

[yuge grahoccānīcabhagaṇāḥ]

uccānīcaparivartajñānārtham āha ā

svoccabhabhagaṇāḥ svabhagaṇaiḥ viśeṣitāḥ svoccānīcaparivartāḥ |

svoccabhabhagaṇāḥ svabhagaṇaiḥ viśeṣitāḥ | svakīyam uccam svoccam, tasya svoccasya
bhagaṇāḥ svoccabhabhagaṇāḥ | atra grahāṇām uccadvayam, mandoccam śīghroccam ca |
atra katarat uccam parigṛhyate? śīghroccam iti āha | mandoccasya yadi api gatiḥ
abhyupagatā tathā api yugabhagaṇasya vyavahārah na asti iti śīghroccabhabhagaṇāḥ eva
parigṛhyante | svabhagaṇaiḥ viśeṣitāḥ svoccānīcaparivartāḥ | uccabhabhagaṇānām
svabhagaṇānām ca yaḥ viśeṣaḥ sa uccānīcaparivartāḥ
| yasmāt nairamśyāt yāvat nairamśyam tāvat udayāstamayavakrānuvakraḥ bhavanti iti
uccaparivartāḥ parikalpitāḥ | ye niramśadvayāntare divasāḥ te parivartasya divasāḥ |
parivartāḥ grahāḥ ca yugādau meṣādītāḥ pravṛttāḥ | mīnānte
śīghrabhabhagaṇaparisamāptiḥ | grahabhogādhikāḥ śīghrabhogāḥ parikalpitāḥ |
uccānīcaparivartāḥ | uccaparivartāḥ nīcaparivartāḥ ca tāvantāḥ eva, yasmāt ekasmin
niramśadvayāntareṣu grahasya uccānīcaprāptī saṁbhavataḥ |

atha kah punar uccāḥ, kah vā nīcaḥ iti? yatra grahāḥ sūkṣmāḥ laksyante karṇasya
mahattvāt sa ākāśapradeśāḥ uccasamjñitāḥ | yatra asau eva grahāḥ mahābimbaḥ
laksyate karṇasya alpatvāt sa ākāśapradeśāḥ nīcasamjñitāḥ iti |

atha parivartaiḥ api uccam kendram vā ānīyate | katham? yadi caturyugāharganena ete
uccānīcaparivartāḥ labhyante, tadā kalyātāharganena kiyantāḥ iti labdham

samatikrāntāḥ parivartāḥ, śeṣe dvādaśā[digunite] rāsyādikāḥ parivartabhogaḥ |
parivartabhogarahitāḥ grahaḥ grahasahitāḥ vā parivartabhogaḥ uccabhogaḥ |
uccabhogasahitāḥ parivartabhogaḥ [parivartabhogarahitāḥ vā uccabhogaḥ]
grahabhogaḥ | parivartabhogaḥ eva kendrabhogaḥ | anyat ca dviyogābhihitena
samānam |

atha "bhagaṇāḥ dvayoh dvayoh ye viśeṣaśeṣāḥ yuge dviyogāḥ te" [kālakriyāí, 3] iti
asyām eva kārikāyām nanu gataḥ ayam arthaḥ kim atra abhidhīyate?
uccanīcaparivartasamjñārtham ayam ārambhāḥ | tatra dviyogamātram eva pratipāditam
| atha ca tat dvayoh dvayoh grahayoh bhagaṇaviśeṣāḥ iti abhihitāḥ | na
uccagrahabhagaṇaviśeṣāḥ iti [pṛthak uktih] |

[aśvayujādyāḥ gurvabdāḥ]

guruvarṣanirūpaṇāya āha ā

gurubhagaṇāḥ rāśiguṇāḥ aśvayujādyāḥ guroḥ abdāḥ || 4 ||

gurubhagaṇāḥ rāśiguṇāḥ | guroḥ bhagaṇāḥ gurubhagaṇāḥ, bṛhaspatibhagaṇāḥ iti yāvat
| rāśiguṇāḥ dvādaśaguṇāḥ iti yāvat | aśvayujādyāḥ guroḥ abdāḥ | aśvayuk abdaḥ, ādau
bhavati [iti] ādyāḥ, aśvayuk ādyāḥ yeṣām te aśvayujādyāḥ | guroḥ abdāḥ guroḥ
samvatsarāḥ iti arthaḥ | te ca aśvayuk-kārtika-mārgaśīrṣa-pauṣa-māgha-phālguna-
caitra-vaiśākha-jyeṣṭha-āṣāḍha-śrāvaṇa-prausthapadākhyāḥ | atra traīrāśikam ā yadi
caturyugāharganena ete guroḥ abdāḥ

vasuvasurasākāśamunidahanakṛtāḥ [4370688] [labhyante, tadā] kalyātāharganena
kiyantāḥ iti | labdhāḥ samatikrāntāḥ samāḥ | labdhāsu samāsu dvādaśabhakte, śeṣāḥ
aśvayujādyāḥ samāḥ | katham idam vijñāyate aśvayujādyāḥ samāḥ iti ? ucyate ā

"aśvayujādyāḥ guroḥ abdāḥ" iti vacanāt | nanu tat eva vacanam asmābhiḥ coditam
parihāraḥ api asmābhiḥ ucyate | yasmāt yugādau aśvinyām
amarapatigururudayaśikhariśikharamadhirūḍhaḥ tasmāt aśvayujādyāḥ guroḥ samāḥ
|

uktam ca ā

yasmin udeti nakṣatre pravāsopagataḥ aṅgirāḥ |
saṃvatsarāḥ tadṛkṣādīḥ bārhaspatyaḥ pragaṇyate ||

iti |

atha vasuvasurasākāśamunidahanakṛtasāṅkhyaiḥ [4370688] traīrāśikena bṛhaspatiḥ api
ānīyate | katham? yadi caturyugāhargāṇena vasuvasvādayaḥ bṛhaspatirāśayaḥ
labhyante, [tadā] kaliyātāhargāṇena kiyantah iti labdhāḥ rāśayaḥ | śeṣe
trimśadādiguṇite bhāgaliptā[dayaḥ] | evam idam arthāt āpannam bhavati | ye
samatikrāntāḥ guroḥ rāśayaḥ te samatikrāntāḥ guroḥ aśvayujādyāḥ saṃvatsarāḥ, śeṣe
ca vartamānah iti |

atha vasuvasvādayaḥ guroḥ saṃvatsarāḥ iti abhidhīyante | nanu ca taiḥ
yugasaṃvatsaraiḥ tulyaiḥ bhavitavyam? na iti āha | ye yugasaṃvatsarāḥ te sauryeṇa
mānena drṣṭāḥ, am ca ye guroḥ abdāḥ te gurumānena | ttat eva yugam sauryeṇa
anumīyamānam gaganajaladabindume[gha]yamahutāśakṛta [4320000] saṅkhyam | tat
eva bārhaspatyena vasuvasvādi [4370688] saṅkhyam | bārhaspatyābdam bṛhaspateḥ
rāśibhogah iti na sauryabārhaspatyau tulyau iti || 4 ||

[sauracāndrasāvananākṣatramānāni]

saura-cāndra-sāvana-nākṣatramānapradarśanārtham āha ā

ravibhagaṇāḥ ravyabdāḥ raviśāsiyogāḥ bhavanti śaśimāsāḥ |
ravibhūyogāḥ divasāḥ bhāvartāḥ ca api nākṣatrāḥ || 5 ||

ravibhagaṇāḥ ravyabdāḥ | raveḥ bhagaṇāḥ, ravibhagaṇāḥ, ravyabdāḥ, ravivarṣāṇi iti
yāvat | ye eva ravibhagaṇāḥ te eva ravyabdāḥ | tathā idam anuktam api gamyate
ravirāśi-bhāga-liptā ravimāsa-divasa-nādyāḥ iti | yasmāt dvādaśarāśayaḥ bhagaṇāḥ,
triṁśadbhāgā rāśih, bhāgaśaṣṭyavayavah liptā, ṣaḍrāśayaḥ ayanam uttaram dakṣinam
ca makarakulīrāditah iti | katham idam avasīyate makarakulīrāditah iti na punar
dhaniṣṭhādeḥ āśleśārdhāt iti, yasmāt uktam
ā

ardhāśleṣāt śraviṣṭhādeḥ pravṛtte dakṣiṇottare |
kṣemasasyasubhiksākhye tu ayane ghamatejasah || iti |

atra ucyate ā śrutyoh bhinnavākyatā | śakyate eva tat vaktum, adṛṣṭārthatvāt |
"śrutyarthānuṣṭhānaphalasya sarvaśākhāpratyayam ekam karma" iti | śrutiṁṛtyoh
punar bhede yā ca smṛtiḥ pratyakṣāviruddhā sā parigṛhyate | iyam asmākam smṛtiḥ
pratyakṣāvyabhicāriṇī, yataḥ pratyakṣeṇa eva uttaradakṣiṇapraवृttiḥ
makarakarkaṭāditah eva upalakṣyate | katham? yasmāt dhanuṣah ante makarādisthite
vidhvastāśeṣadhvāntasamghāte bhagavati bhāskare dinamadhyamgate
sarvamadhyāhnacchāyābhyaḥ mahatī madhyāhnacchāyā lakṣyate | sā ca krameṇa
apacīyamānā makarāditah eva, na śraviṣṭhādeḥ | yat ca karkaṭādau
sarvamadhyāhnacchāyābhyaḥ svalpiyāśī madhyāhnacchāyā, sā ca krameṇa
upacīyamānā karkaṭāditah eva, na aśleśārdhāt iti ataḥ pratyakṣasiddham ayanam |

athavā ayam anyārthaparah eva granthah | karkaṭādeḥ dakṣināyanam makarādeḥ ca
uttarāyanam iti etasya abhyupagamāt eva ucyate ā yadā bhavagān bhāskarah
ardhāśleṣāt dakṣinām mārgam pravartate punar vasvoḥ caturthāṁśadim [arthāt
karkaṭādim] parityajyate tadā kṣemasasyasubhiksāḥ bhavanti | yadā ca makarādim
parityajya śraviṣṭhādeḥ uttaram [mārgam] pratipadyate tadā ca tatphalārthatvam iti |
atha ayam vivasvān katham evam pravartate iti?

ucyate ā grahāṇām dvayī gatiḥ, saṅkhyānugatā autpātikī ca | yadā autpātikī gatiḥ evam
prakārā bhavati tadā kṣemasasyasubhiksākhye ayane [bhavataḥ] | yadā punar
karkaṭamakarādim aprāptvā eva dakṣinottarapratīttinivṛttī bhavataḥ tadā akṣemā
asasyā asubhiksā iti etat pradarśayati |

api atra aviditaparamārthāḥ romakāḥ paṭhanti ā

vasudaivādisārpārdhāt ayanam munayah jaguḥ |
mr̥gakarkyāditaḥ dṛṣṭam katham tat hi gateḥ vinā ||

iti ādigranthena | kṣudravidrāvaṇopanyāsakrameṇa yugabhagaṇān āhuḥ ā

tasmāt atra viyadrudrakṛtanandadhṛtīḥ (1894110) yugam |
bhagaṇān saptaviśvākhyānādityāntyotkramāt kramāt || iti |

atra katham idam ghaṭate yadi utkrameṇa kramāt vā punar vasvoḥ meṣādeḥ api
dakṣināyanam pravartate na karkaṭādau eva? tathā ca varsārtuḥ meṣādeḥ pravarteta
[makarādeḥ] vasantaḥ | tathā ca kālaviparyāsaḥ prasajyeta | evam ca śrutyarthāḥ na
anuṣṭhitāḥ bhavati | "vasante yajeta", caitravaiśākhau vasantaḥ, "madhuḥ ca mādhavaḥ
ca vāsantikau ṛtū" [taittirīyasamhitā, 4.4.11] | tathā ca "śaradi vājapeyena yajet",

aśvayukkārtikau śarat, "iṣaḥ ca ūrjaḥ ca śāradau
ṛtū" [taittirīyasamhitā, 4.4.11] iti | idam ca jyotiṣām ayanam aṅgam vedasya | tasmāt na
ayanasya gatiḥ | makarakarkaṭāditah ayanam iti | sarvasiddhāntaguruḥ ācāryalāṭadevah
āha ā

makarādau udagayanam dakṣinam ayanam ca candra bhava nādau |

iti |

ṛtuniścayāya āha ā

ṛtavah śisira-vasanta-grīṣma-ghanāgama-śarad-himāgamanāḥ |
makarāt rāśidvayagatadinakarabhogasthitisamānāḥ ||

iti |

anyat ca ā apakramavṛddhiḥ dhanuḥ mithunānte eva iti | rātridivasya yoḥ mahatī vṛddhiḥ
makarakarkaṭādau eva, na anyataḥ eva iti | pratyakṣasiddham idam iti | ataḥ
ayanayugabhagaṇaparikalpanā mudhā |

atha idam praṣṭavyam ā sphuṭagatyā parigahyante āhosvit madhyamagatyā iti | yadi
madhyamagatyā, [tadā] yāni sauryamānābhihitāni prayojanāni tāni madhyamagatyā
prāpnuvanti, sphuṭagatyā ceṣyante | kāni punar tāni prayojanāni iti? ucyate ā

vāyoḥ mūrcchanam abhrāṇām utpattiḥ cakṣuṣoḥ balam |
śītoṣṇavarṣaprāptih ca prasādah salisasya ca ||

sattvānām madalābhāḥ syuḥ ārtavah̄ ca api yoṣitām |
phalapuṣpodgamam ca eva patrāṇkuravirohaṇam ||

ayanānā[m ṛtūnām] ca muhūrtānām ca darśanam |
pariveṣaparīdhānam paridhīnām tathā eva ca ||

gandharvanagarāṇām ca tathā indradhanuṣām api |
ulkānām aśanīnām ca sandhyayoh̄ vidyutām tathā ||

bhūrathābhhraninādānām dhiṣṇyānām patanasya ca |
jyotiṣām varṇabhedasya grahāṇām ceṣṭitasya ca ||

agneḥ auṣṇyasya śaktyoh̄ ca vilayasya udbhavasya ca |
sauram mānam vijānīyāt pravartakanivartakam ||

iti ādi prayojanāni |

yadi sphuṭagatyā tat etāni prayojanāni parigṛhītāni bhavanti, idam tu na siddhyati
adhikāvamānām grahaṇam | yasmāt adhikāvamānām grahaṇam madhyamena mānena
| atha katham sphuṭārtham vacanam madhyamagatipratipattaye bhaviṣyati | atha
madhyamagatipratipattaye sphuṭārtham katham iti | na eṣaḥ doṣaḥ | "śalyartham kulyāḥ
prāṇīyante, tābhyaḥ ca pāṇīyam pīyate, tāsu ca upaspr̄ṣyate" [aṣṭādhyāyī, 1.1.22
pāṭañjalabhaṣyam] iti siddham | etat ubhayagrahaṇāt
ubhayam atra parigṛhyate iti madhyamagatyā sphuṭagatyā ca | madhyamagatyā
adhikāvamānām grahaṇam siddham, sphuṭagatyā ca samhitākārābhihitāni prayojanāni |

raviśaśiyogāḥ bhavanti śaśimāsāḥ | raveḥ śaśināḥ ca yogāḥ raviśaśiyogāḥ | bhavanti

śaśimāsāḥ | ye yuge raviśaśiyogāḥ abhihitāḥ te śaśimāsāḥ | te ca prāg yathā siddhyanti tathā vyākhyātām | śaśimāsaiḥ śaśidivasaghaṭikāḥ vyākhyātāḥ | śaśimāsenā kāni punar prayojanāni?

darśam ca paurṇamāsam ca tathejyādyāḥ kriyā bhuvi |
parvāṇām ca parijñānam tithīnām pratyayah tathā ||
prābalyam auṣadhiṇām ca rasānām vyaktiḥ eva ca |
pūraṇam hīnatā ca indoh tathā eva lavaṇāmbhasah ||
garbhāṇām jīvanam ca api tathā api ayanam eva ca |
rāhoḥ āgamanaprāptiḥ [ca] aindavam mānam āśritāḥ ||

evam ādīni prayojanāni |

ravibhūyogāḥ divasāḥ | raveḥ bhuvah ca yogāḥ ravibhūyogāḥ | ye yuge ravibhūyogāḥ te yuge bhūdivasāḥ | bhūdivasaḥ nāma raveḥ ardhodayāt prabhṛti punar ardhodayam iti | sāvanaḥ divasaḥ bhūdivasaḥ iti ucyate | romakaiḥ sa eva bhūdivasaḥ ravyudayah iti samjñītaḥ | kāni punar sāvanamānasya prayojanāni?

yajñakālaparijñānam yajñeṣu savanāni ca |
vrataḥ dīkṣaṇakālaḥ ca cūḍopanayanāni ca ||
āyuṣām ca api nirlekhā prayogāṇām ca vṛddhayah |
grahacāraparijñānam ādeśagamanāni ca |
yāni ca api evam ādīni saṅkhyoddīṣṭāni tāni vai |
sāvanena eva mānena gānyante iti niścayah ||

etāni prayojanāni |

bhāvartāḥ ca api nākṣatrāḥ | bhānām āvartāḥ bhāvartāḥ, bhacakrabhramāṇāni | tat ca bhacakram kim ādiḥ iti etat vicāryam | yadi meṣādiḥ syāt [tadā] meṣādisthe savitari savitṛbhacakrādyoh yugapat udayah, dvitīyah punar anudite eva savitari bhacakrādyudayah, na ca bhacakrādidvayodayāntare ṣaṣṭīḥ nādyaḥ | tathā ca "prāṇena iti kalām bham" [gītikāí, 6] iti cakraliptānām ahorātraghāṭikāpramāṇaliptānām ca tulyatā na upapadyate, yasmāt apūrṇe eva ahorātre bhacakrādiḥ udeti | yadā punar ādityodayah bhacakrādiḥ parigṛhyate tadā ahorātraprāṇāḥ svadeśarāśyudayaprāṇatulyāḥ | te ca khakhaṣadghanatulyāḥ | bhacakraliptāḥ ca tāvatyah iti etat upapannam |

anyat ca ā udayalagnavidhiḥ sūryāt eva pravartate, audayikāt ca raveḥ | sa ceṣṭakāle svābhīṣṭakālāditya[rāśeḥ vicārya]māṇaḥ yāvat punar udayah iti tāvat na antaram vidadhāti | tasmāt ravyudayah eva bhacakrādiḥ, vyavahāraprasiddhyartham | yadi evam grahabhukturāśayaḥ ravyākrāntarāśipradeśāt eva prāpnuvanti? na eṣaḥ doṣaḥ, "budhāhnyajārkodayāt ca laṅkāyām" [gītikāí, 4] iti eṣām ajādinirūpaṇāt | kubhagaṇāḥ ca yugādyantayoh ajārkodayāt eva pratiparisamāptāḥ iti teṣām ca ajādītā siddhā | te eva yugabhacakrāvartāḥ nākṣatrādivasāḥ bhūdivasāḥ iti, divasagrahaṇānuvartanāt | ke punar te bhāvartāḥ? ye kubhagaṇāḥ, "ku niśibuṇīṣkṛ" [1582237500] iti gītikāsu [gītikāí, 3] uktāḥ | katham ete kubhagaṇāḥ bhāvartāḥ iti uktāḥ? bhacakraprativaddhāni nākṣatrāṇi | tasya pravahākṣepāt aparām diśam āsādayanti | nākṣatrāṇi bhuvam svagatyā prāṇmukham bhramantīm iva paśyanti iti anayā gatyā bhuvah bhagaṇānirdeśāḥ | tena uktam ā "bhāvartāḥ ca api nākṣatrāḥ" iti | anye punar "kva āvartāḥ ca api nākṣatrāḥ" iti paṭhanti | teṣā pāṭhāt eva hi sarvam upapannam |

atha anye punar anyathā varṇayanti ā

ddarśāt darśah cāndraḥ trimśat divasāḥ tu sāvanah māsaḥ |
sauryah arkarāśibhogaḥ nākṣatrah ca indumaṇḍalakam ||
[lāṭadevasya kṛtitah]

darśāt darśah cāndraḥ iti sūryācandramasoh yaḥ paraḥ sannikarsaḥ sa darśaśabdena
ucyate, sa ca tayoh yogah | "raviśaśiyogah bhavanti śaśimāsaḥ" iti tulyam lakṣaṇam |
trimśat divasāḥ tu sāvanah māsaḥ iti etat api "ravyudayāḥ trimśat" iti tulyam | sauryah
arkarāśibhogaḥ iti "ravibhagaṇāḥ ravyabdāḥ", "raveḥ rāśayah api ravimāsaḥ" iti etat api
tulyam lakṣaṇam | "nākṣatram ca indumaṇḍalakam" iti indoḥ maṇḍalam nākṣatrah
māsaḥ iti | tatra pratyaham yaḥ candrabhogaḥ
sa tanmāsāvayavah iti |

nakṣatrāṇi api vibhajyante | tat yathā ā yaḥ candrabhagaṇasya trimśadbhāgaḥ sa
nākṣatrah divasah | evam navanakṣatradaśabhāgaḥ nākṣatrah divasah iti etat
abhinnam lakṣaṇam |

asmākam ācāryenā svatantrāntarāviroddhaprakriyāpratipādanārtham idam uktam
"bhāvartāḥ ca api nākṣatrāḥ" iti | kā ca svatantrāntaraprakriyā? "prāṇena eti kalām
bham" [gītikāī, 6] iti, prāṇena kalām bham gacchatī iti jyotiścakraliptānām
bhāvartaprāṇānām ca tulyatve jyādayaḥ vidhayaḥ siddhyante, na anyathā iti iyam
prakriyā | yeśām ca "nākṣatram ca indumaṇḍalakam" iti lakṣaṇam, taiḥ
samhitākārābhihitaprayojanasiddhyartham uktam | atra ekena lakṣaṇena
prajoyanasya aparigrahāt lakṣaṇadvayam idam iṣyate | katham? tatra āvṛttiḥ ekaśeṣaḥ
iti, bhāvartaśabdasya ekaśeṣavyākhyānāt bhāvartāḥ ca bhāvartāḥ ca, bhāvartāḥ | bhāni
jyotiṁsi aśvinyādīni | teśām āvartāḥ bhāvartāḥ, bhaparyayāḥ iti arthaḥ | paryayaḥ ca
nakṣatrāṇām candraviṣayaḥ eva parigṛhyate, lokavyavahārāt | lokah hi
candrākrāntanakṣatraliḥ eva vyavaharati | athavā anyārtham prakṛtam anyārtham api

bhavati, "śālyartham kulyāḥ pranīyante, tāsu ca upaspr̄syate"
[aṣṭādhyāyī, 1.1.22, pātañjalamahābhāṣyam] iti | athavā "bhāvartāḥ ca nākṣatrah" iti
ekavacanena siddhe "bhāvartāḥ ca nākṣatrāḥ" iti bahuvacananirdeśam kurvan ācāryāḥ
jñāpayati nākṣatrasya anekalakṣaṇam iti | athavā cakārah atra prayuktaḥ, na tena atra
kaścit arthaḥ sādhyate, atha ca prayuktena manyāmahe nākṣatrasya anekam lakṣaṇam
iti | tat ca anekam lakṣaṇam yathā vyavasthitam tathā vyākhyātam iti atāḥ
lakṣaṇadvayam api svasiddhāntasiddham |

atha nākṣatrasya mānasya kāni prayojanāni?

saṃvatsarāṇām māsānām ṛtūnām parvaṇām tathā |
ayanānām ca sarveṣām samāptipratipattayah ||
śubhāśubham ca lokānām mānam unmānam eva vā |
iti evamādīni prayojanāni |

atha iyam uktih vāgvāgurā kṣudravidrāvanaparā nākṣatramānapradarśitaprayojanaiḥ
lakṣyate "saṃvatsarāṇām māsānām ṛtūnām" iti | saṃvatsarāṇām tāvat
pratipacchedanimittam nākṣatram [na] bhavati, yataḥ saṃvatsarah śāstre
caitraśuklādeḥ pravartate | sa ca caitraśuklādiḥ cāndreṇa upalakṣyate |
saṃhitākārāṇām ca bṛhaspaticāre yaḥ saṃvatsarah bṛhaspateḥ nākṣatrodāyāt
pravartate ā

yasmin udeti nākṣatre pravāsopagataḥ aṅgirāḥ |

iti | māsānām api na bhavati | yasmin kṛttikābhīḥ yutāḥ candramāḥ, asmin māse
ardhamāse ca iti kārtikāḥ māsaḥ | sa candranākṣatrayogaviśeṣaḥ cāndraḥ

mānaviśeṣah | ṛtūnām ayanānām [ca jñānam] sauryeṇa mānena iti pradarsitam eva
asmābhiḥ | tasmāt etat na nākṣatramānam | yaiḥ "nākṣatram ca indumaṇḍalakam" iti
asya anuvartanāt "bhāvartāḥ ca nākṣatrāḥ" iti asya śabdārthavyākhyāne
naikaśeṣabahuvacananirdeśah [krtaḥ] "ca"-śabdāt iti budhaiḥ eva vidi tapa ramārthaiḥ
mukham āyāsitam | tasmāt asmākam ācāryeṇa atīndriyārthadarśinā abhihitam
ācāryāryabhaṭena tat eva nākṣatramānam | tasmāt "iyam uktiḥ vagvāgurā
ksudravidrāvaṇaparā nākṣatramānapradarśitaprayojanaiḥ lakṣyate" iti suṣṭhu uktam |
atha etāni saurya-sāvana-cāndra-nākṣatrāṇi mānāni madhyamagatyā pratipāditāni |
tatprajanārtham sphuṭagatyā pratipattavyāni iti pradiṣṭam | ācāryalāṭadevena tu
sphuṭagatyā eva pratipāditāni ā

darśāt darśah cāndraḥ trimśat divasāḥ tu sāvanah māsaḥ |

iti ādigranthena iti |

atra ca ayam praśnah ā "avamādhimāsakaiḥ vinā dyugaṇam" iti | yātavarṣāṇi māsīkṛtya
vartamānamāsaiḥ samyojya traīrāśikam ā yadi yugaravimāsaiḥ yugacāndramāsāḥ
labhyante, [tadā] etaiḥ [raviḥ] māsaiḥ kiyantah cāndramāsāḥ iti, labdham cāndramāsāḥ |
te trimśadguṇāḥ vartamānatithiyuktāḥ kāryāḥ | tataḥ traīrāśikam ā yadi
yugacāndradivasaiḥ yugāharganāḥ labhyate [tadā] etaiḥ cāndradivasaiḥ kim iti,
aharganāḥ labhyate | tatra ekaḥ prakṣepaḥ | atha kah
ca asau ekaḥ prakṣepaḥ? ucyate ā yaḥ asau labhyate aharganāḥ sa atītah | śeṣah
vartamānah | vartamānena aharganāḥ bhavati iti ekaḥ prakṣepaḥ | "tena
divākarodupau" iti etat uttaratra vakṣyate | tābhyaṁ sphuṭaparvadarśanam iti |

candrādityābhyām vinā sphuṭatithyānayanam | tat yathā ā "[yadi] yugāharganāḥ
candravarṣāṇi vasumunigiri yamaviśayakṛtveda [4452778] tulyāni labhyante, tadā

anena iṣṭāharganena kiyanti iti varṣāṇi labhyante | śeṣe dvādaśā[di]gunite māsa-divasa-
ghaṭikā-vighaṭikāḥ ca labhyante | evam madhyamā tithih bhavati | atha
śāsyuccanīcaparivartaiḥ traīrāśikam ā yadi yugāharganena śāsyuccanīcaparivartāḥ
labhyante, [tadā] anena iṣṭāharganena kiyantah iti, atītāḥ
parivartāḥ labhyante | śeṣe dvādaśādigunite rāśyādayaḥ labhyante | trirāśirahitam
śāśikendram | tataḥ phalam śāśibhuktiḥ ca ānīyate | phalasya dvādaśabhiḥ bhāge
nādyaḥ vinādyaḥ ca labhyante | tāvat madhyamatithau yathānyāyena ḥnam dhanam vā
kartavyam | sūryānayanārtham traīrāśikam ā yadi yugāharganena
vasumunigiriya madahanendu[132778]tulyāni adhikavarṣāṇi labhyante, tadā
kaliyātāharganena kiyantah iti, varṣa-māsa-divasa-ghaṭikāḥ labhyante |
pratirāśitamadhyamatithivarsādibhyah te śodhyāḥ śeṣam ravivarṣādayaḥ | tebhyah
māsadvayam [2] ca aṣṭādaśa [18] ca divasān apanīya ravikendram bhavati | tena
phalānayanam bhaktyānayanam ca | phalasya dvādaśabhiḥ bhāge labdhāḥ nādyaḥ
vinādyaḥ ca | tithau eva ḥnadhanavyatyāsam kuryāt | atha kim iti ḥnadhanavyatyāsaḥ
kriyate? ucyate ā sūryasya yat ḥnam tat titheḥ upacayaḥ, dhanam yat tat apacayaḥ iti |
evam tithih niṣpannā bhavati | tataḥ idam kriyate ā yadi
madhyamabhuktyantareṇa ṣaṣṭih nādyaḥ labhyante, [tadā] sphuṭagatyantareṇa kiyatya
iti, gatyantaranādyaḥ upalabhyante | tābhiḥ traīrāśikam ā yadi etābhiḥ
gatyantaranādikābhiḥ ṣaṣṭih nādyaḥ labhyante, [tadā] anena tithiśeṣeṇa kiyatya iti
tithinādyaḥ vinādyaḥ ca labhyante | athavā traīrāśikadvayam bhaṅktvā idam karma
kiyate | madhyamabhuktyantareṇa tithiśeṣam guṇayitvā sphuṭabhuktyantareṇa
bhāgasiddham ghaṭikāvighaṭikāḥ ca | katham punar traīrāśikadvayam
bhinnam? ucyate ā yadi madhyamabhuktyantareṇa ṣaṣṭih nādyaḥ labhyante [tadā]
sphuṭabhuktyantareṇa kiyatya iti ekam traīrāśikam | punar ā labdhena phalena yadi
ṣaṣṭih nādyaḥ, [tadā] anena tithiśeṣeṇa kiyatya iti | yaḥ pūrvatraīrāśike guṇakāraḥ sa iha
arthāt bhāgahāraḥ iti | atha deśāntaravīśeṣeṇa ca akṣaviśeṣeṇa ca yat phalam
upajāyate tat api yuktyā yojayitavyam iti || 5 ||

[adhimāsāvamadināni]

adhimāsāvamaparijñānāya āha ā

adhimāsakāḥ yuge te ravimāsebhyāḥ adhikāḥ tu ye cāndrāḥ |

śaśidivasāḥ vijñeyāḥ bhūdivasonāḥ tithipralayāḥ || 6 ||

ye ravimāsebhyāḥ adhikāḥ cāndramāsāḥ te yuge yuge adhimāsāḥ bhavanti, ye ca
bhūdivasonāḥ śaśidivasāḥ te yuge tithipralayāḥ | pralayah vināśah | tithinām pralayāḥ
tithipralayāḥ | avamarātrāni iti arthaḥ | evam bruvatā etat pradarśitam bhavati ā
sauryacāndrāntaram adhimāsabhogaḥ, sāvamam sāvanam cāndram mānam iti |
adhikāvamayoḥ madhyamagatyā upacayaḥ iti uktam | yadi sphuṭagatyā syāt tadā
dvitīyāyām pravṛttāyām pratipat tṛtīyā [ni]vṛtti-pravṛtti
na stah | adhimāsāvamaiḥ kim nirvartyate? ahargaṇaḥ iti āha | na etat asti, vinā api
adhimāsāvamaiḥ ahargaṇasya nirvartitatvāt | na eṣaḥ doṣaḥ, upāyāntaratvāt |
adhimāsāvamaiḥ vinā ahargaṇasya sādhanam pradarśitam | yena ca adhimāsāvamaiḥ
ahargaṇaḥ labhyate sa upāyaḥ pradarśayitavyaḥ | na etat asti, ekopāyatvāt | sa ca
ayam ca ekaḥ upāyaḥ | katham ekopāyatā? ye cāndramāsāḥ te sādhikāḥ teṣām
sādhikatvāt sādhikāḥ eva māsarāśiḥ labhyate | punar api ca bhūdivasānām
rahitāvamatvāt traīrāśikena rahitāvamah ahargaṇaḥ labhyate | atha kaścit
laghūkaranārthī guṇakārāt bhāgahāram apanayet tasya śeṣaguṇite labdham
pratirāśitagunye [kṣipet] | yadi bhāgahārāt avaśiṣyate tatra śeṣaguṇite labdham guṇyāt
pratirāśitāt apanīyam iti eṣaḥ gaṇitanyāyah | atha atra guṇakārādhikatvāt māsāḥ
kṣipyante bhāgahārādhikatvāt divasāḥ apacīyante iti ekopāyatā | tasmāt na arthaḥ
anayā kārikayā, tathāpi lokavyavahārārtham adhimāsāvamānām
upadeṣaḥ kartavyaḥ | lokaḥ ca adhimāsāvamaiḥ vyavaharati | uktam ca ā
"karaṇādhiṣṭhitam adhimāsakam kuryāt", "triśatam sacatuṣpañcāśa[tam a]horātrāṇām

karma sāmvatsarah" iti | adhimāsārtham trairāśikam ā yadi yugavarṣaiḥ māsaiḥ vā
yugādhimāsakāḥ labhyante, tataḥ yātavarsādibhiḥ kiyantah iti adhimāsakalabdhiḥ |
evam eva avamānām cāndradivasaiḥ iti |

atra ca ayam praśnah ā "tena divākaroḍupau" iti ahargaṇena vinā candrādityānayanam
| tat yathā ā yātavarṣeṣu dvādaśaguṇiteṣu gatamāsān kṣipet | tataḥ trimśadguṇiteṣu
divasān prakṣipya trairāśikam ā yadi
pūrṇaviyadambarajaladharapayodharayamaśaraviṣayesucandraiḥ [1555200000]
yugasauradivasaiḥ yugādhimāsakāḥ labhyante, tataḥ etaiḥ divasaiḥ kiyantah iti,
labhdham adhimāsakāḥ | śeṣe kṣepaḥ ucyate ā yadi bhūdivasatulyena avamašeṣeṇa
yugādhimāsatulyaḥ
upacayaḥ adhimāsakašeṣasya labhyate, tadā anena avamašeṣeṇa kiyān iti | yat
labdham tat adhimāsakašeṣe prakṣipya yugacāndramāsaiḥ
rasarāmāgnigutāśanatrikṛtriviṣayaiḥ [5343336] bhāgalabdham bhāgāḥ, ṣaṣṭiguṇite
liptāḥ | trimśaguṇādhikayutam divasarāśim kṛtvā trairāśikam ā yadi yugacāndradinaiḥ
yugāvamadināni labhyante, tataḥ etaiḥ kim iti labhdham avamaḥ | śeṣam ṣaṣṭyā
saṃguṇya bhūdivasaiḥ pūrṇāmbaraśaranagaśāśirandhramunigiriṣayarūpaḥ
[1577917500]
vibhajet, labdham ghaṭikāḥ |

atha kim artham adhikāvamašeṣayoh śaśimāsabhūdivasaiḥ bhāgah hriyate? ucyate ā
yah asau adhimāsašeṣah sa cāndramāsāvayavah | ataḥ tena sacchedena trairāśikam ā
yadi yugaśāśimāsaiḥ sūryabhagaṇāḥ labhyante, tataḥ anena śaśimāsāvayavena
kiyantah iti | tatra śaśimāsāvayavacchedena saha ravibhagaṇena apavartanam ā
ravibhagaṇānām ravibhagaṇabhāgena ekaḥ guṇakāraḥ, chedasya tāvat bhāgena
ṣaṣṭiṣatatravayam | tatra bhagaṇeṣu bhāgam na prayacchatī
iti dvādaśa trimśat ca guṇakāraḥ | tatra ṣaṣṭiṣatatravayabhāgena rūpam, tāvat bhāgena

eva chedasya api rūpam eva | śaśimāsāḥ eva kevalāḥ bhāgahārāḥ iti | avamaśeṣaḥ api bhūdināvayavaḥ iti traīrāśikam ā yadi bhūdinaiḥ cāndradivasāḥ labhyante, tataḥ anena bhūdivasāvayavena cāndradivasacchedena kim iti | tatra guṇakārabhāgahārayoḥ tulyatvāt nāśaḥ | śeṣe ṣaṣṭiguṇe bhūdivasabhakte ghaṭikāḥ iti | atha yātavarsāṇi bhagaṇāḥ, māsāḥ rāśayaḥ, dināni bhāgāḥ iti parikalpya avamaśeṣalabdhaṅgaṭikāḥ ca liptāḥ | ebhyaḥ adhikaśeṣalabdham viśodhayet | śeṣam madhyamasūryaḥ | tebhyaḥ eva trayodaśaguṇitebhyaḥ adhikaśeṣaphalam viśodhayet | śeṣam madhyamacandraḥ |

adhimāsakaiḥ api avamāḥ ānīyante | tat yathā ā abhīṣṭavarsāṇi dinīkṛtya traīrāśikam ā [yadi] yugasūryadivasaiḥ yugādhimāsakāḥ labhyante, tataḥ etaiḥ abhīṣṭasūryadivasaiḥ kiyantah iti, adhimāsakāḥ samatikrāntāḥ labhyante, vartamānasya ca śeṣaḥ | tat etat traīrāśikam ā yadi yugādhimāsaiḥ yugāvamarātrā[ṇi] labhyante tataḥ etaiḥ adhimāsakaiḥ abhīṣṭaiḥ kiyantah iti gaṇitanyāyena savarṇīkṛtya yugāvamaiḥ guṇayet | athavā abhīṣṭādhimāsarāśim amśarāśim
ca pṛthak pṛthak yugāvamaiḥ saṃguṇayya amśarāśim yugasūryadivasaiḥ vibhajya labhdham upari kṣiptvā yugādhimāsakaiḥ bhāgalabdham abhīṣṭakālāvamāḥ | athavā traīrāśikadvayam bhaṅktvā api ānīyante ā yadi yugasūryadivasaiḥ adhimāsakāḥ labhyante, tataḥ abhīṣṭadivasaiḥ kiyantah iti ekam traīrāśikam | tataḥ punar api ā yadi yugādhimāsakaiḥ yugāvamāḥ labhyante, tataḥ traīrāśikanyāyaviracitarāśyutpannādhimāsakaiḥ kiyantah iti | tatra pūrvatraīrāśike yugādhimāsakāḥ
guṇakāraḥ dvitīyatraīrāśike bhāgahāraḥ | ataḥ guṇakārabhāgahārayoḥ tulyatvāt naṣṭayoḥ abhīṣṭadivasānām yugāvamāḥ guṇakāraḥ, yugasauryadivasāḥ bhāgahāraḥ, labdham abhīṣṭāvamāḥ |

abhīṣṭāvamaiḥ api adhimāsakāḥ ānīyante | abhīṣṭavarsamāsesu tat

utpannādhimāsakān prakṣipya trimśatā samguṇayya traīrāśikadvayam kriyate ā yadi yugaśāśidivasaiḥ yugāvamāḥ labhyante tataḥ abhīṣṭaśāśidivasaiḥ kiyantah iti avamāḥ | evam ekam traīrāśikam | punar ā yadi yugāvamaiḥ yugādhimāsakāḥ labhyante tataḥ abhīṣṭāvamaiḥ pūrvatraīrāśikaviracitaiḥ kiyantah iti, adhimāsakāḥ labhyante | tatra pūrvatraīrāśike yugāvamāḥ guṇakāraḥ, iha bhāgahāraḥ | atah guṇakārabhāgahārayoḥ tulyatvāt naṣṭayoḥ yugaśāśidivasah bhāgahāraḥ, yugādhimāsakāḥ guṇakāraḥ, phalam abhīṣṭādhimāsakāḥ | pūrvavat vā pṛthak pṛthak traīrāśikena api karaṇīyam |

atha adhimāsakaiḥ abhīṣṭagrahāḥ api ānīyante | tat yathā ā yadi yugādhimāsakaiḥ abhīṣṭagrahabhagaṇāḥ labhyante, tadā iṣṭādhimāsakaiḥ kiyantah iti | adhimāsapatanakālāvadheḥ abhīṣṭagrahabhagaṇādayaḥ labhyante | asau eva abhīṣṭakālikāḥ kriyate | katham? adhimāsaka[śeṣeṇa] abhīṣṭagrahabhagaṇāḥ samguṇayya adhimāsakaiḥ guṇitaśāśidivasaiḥ vibhajet | tatra bhagaṇādayaḥ labhyante, [te] pūrvalabdhādhimāsakagrahabhagaṇeṣu yojyante tadā avamarātrapatanakālāvadheḥ bhavati | tataḥ punar api avamarātraśeṣam ṣaṣṭyā samguṇayya śāśidivasaiḥ eva vibhajet | labdham ghaṭikāḥ | tataḥ ā yadi ṣaṣṭighaṭikābhiḥ abhīṣṭagrahabhuktiḥ labhyate, [tadā] ābhiḥ ghaṭikābhiḥ kim iti | labdham pūrvasthāpīte grahe dadyāt, abhīṣṭadivasasya udayakālāvadheḥ [grahāḥ] bhavati |

atha avamaiḥ api ā yadi yugā[vamaiḥ abhīṣṭagrahabhagaṇāḥ] labhyante tataḥ yātāvamaiḥ kiyantah iti | avamarātraparisamāptikālāvadheḥ abhīṣṭagrahabhagaṇādayaḥ labhyante, tataḥ iṣṭadivasaudayikāḥ kriyate | katham? avamarātraśeṣeṇa abhīṣṭagrahabhagaṇāḥ samguṇayya yugāvamabhūdivasasamvargeṇa vibhajet | labdham bhagaṇādayaḥ | tān pūrvalabdhahagaṇādiṣu kṣipet | audayikāḥ grahāḥ bhavati |

atra ayam praśnah ă

avamaiḥ yaḥ adhikamāsān avamāni ca yaḥ karoti adhikamāsaiḥJ|
tābhyām vā graham iṣṭam tasya aham śiṣyatām yāmi || 1 ||

iti|

adhimāsāvamaśeṣābhyām sūryācandramasoh ānayanam uktam | idānīm avamaśeṣāt
eva sarvagrahānayanam abhidhāsyate | tat yathā ă yugāvamam ṣaṣṭyā apavartya
sthāpanā ă 418043 | atha ādityānayane tāvat ete apavartitāvamāḥ kena gunitāḥ
apavartitādityabhagaṇān apanīya tat apavartitabhūdinānām tu śuddham bhāgam
dadyuḥ iti kuṭṭākāraḥ kriyate | tatra labdham kuṭṭākāraḥ saptendurasādrivasavah,
aṅkaiḥ api 87617 | anena avamaśeṣam samguṇayya
apavartitabhūdinaiḥ eva vibhajet | śeṣam tatra raveḥ maṇḍalaśeṣah | etena
ādityānayanam vyākhyātam |

uddeśakah ă

ṣaṭsaptabāṇenduśarādriśūnyadasrapramāṇah avamajātaśeṣah |
etena śeṣah ravimaṇḍalānām vācyah vivasvān ca kalāntasaṅkhyam || 2 ||

avamaśeṣah 20751576 | labdham raveḥ maṇḍalaśeṣah 49665, raviḥ ca 2 | 24 | 58 |

candrasya api kuṭṭākārānayanam pūrvavat eva | apavartitāvamāḥ kena gunitāḥ
apavartitacandrabhagaṇān apanīyā apavartita[bhū]dinānām śuddham bhāgam
prayacchati iti kuṭṭākāranyāyena labdham kuṭṭākāraḥ 2119236 | uddiṣṭāvamaśeṣena
candrānayanam |

athavā madhyamāt sūryāt sahayātabhagaṇaiḥ liptīkṛtya traīrāśikam ā yadi
yugaraviliptābhiḥ yugaśaśibhagaṇāḥ labhyante, [tadā] etābhiḥ yātaraviliptābhiḥ kiyantah
iti | labdham bhagaṇāḥ, śeṣe dvādaśādiguṇite madhyamah candraḥ labhyate | athavā
khakhaṣadghanena yadā yugaraviliptāḥ apavartitāḥ bhavanti [tadā] ravibhagaṇāḥ
bhāgahāraḥ, śaśibhagaṇāḥ yātaraviliptānām guṇakāraḥ, phalam
madhyamacandraliptāḥ | evam anena nyāyana candrāt abhīṣṭagrahāt
vā iṣṭagrahāḥ ānīyate | katham? nirjñātagrahayātaliptānām abhīṣṭagrahabhagaṇāḥ
guṇakāraḥ nirjñātagrahayugaliptāḥ bhagaṇāḥ vā bhāgahāraḥ, phalam [bhagaṇāḥ] liptāḥ
[vā] | atra ayam praśnah ā

savituh śaśinam karoti yah śaśinah sthititah tārakagrahān |
asmatsiddhāntavarjitāt kālajñapravaraḥ sa ucyate || 3 ||

iti || 6 ||

[mānuṣapitṛdevavarṣapramāṇāni]

mānuṣapitṛdevānām varṣapramāṇanirūpanāya āha ā

ravivarṣam mānuṣyam tat api trimśadguṇam bhavati pitryam |
pitryam dvādaśaguṇitam divyam varṣam vinirdiṣṭam || 7 ||

ravivarṣam, raveḥ varṣam ravivarṣam | ravivarṣasya ca pramāṇam abhihitam ā
"ravibhagaṇāḥ ravyabdāḥ" [kālakriyāí, 5] iti | raveḥ bhagaṇabhogaḥ mānuṣāṇām
varṣam | yat eva raveḥ varṣam tat eva mānuṣāṇām varṣam iti | tat api trimśadguṇam
bhavati pitryam | tat mānuṣyam varṣam trimśadguṇitam pitryam varṣam bhavati, yasmāt

māsaḥ teṣām ahorātram | uktam ca ā "śaśimāśārdham pitarah" [kālakriyāí, 17] iti |
pitryam dvādaśaguṇitam divyam varṣam
vinirdiṣṭam | piṭṛṇām yat varṣam tat dvādaśaguṇitam ekam varṣam devānām, yasmāt
pitryam varṣam māsaḥ devānām | yathākrameṇa ekatrimśatṣaṣṭiśatatraya[guṇam] ca
[ravivarṣam] manujapitṛdevānām [varṣāṇi] || 7 ||

[yugamānam brahmadinapramāṇam ca]

caturyugabrahmadinajñāpanārtham āha ā

divyam varṣasahasram grahasāmānyam yugam dvīṣṭakaguṇam |
aṣṭottaram sahasram brāhmaṇ divasah grahayugānām || 8 ||

yat etat divyam varṣam tat dvādaśabhiḥ sahasreṇa guṇitam grahasāmānyam yugam |
grahānām sāmānyam grahasāmānyam | kim tat? yugam | yasmāt sarve grahāḥ
sahaśīghroccaiḥ yugapat mīnameśasandhau bhavanti, tasmāt yugam grahasāmānyam |
tat ca viyadambarākāśaśūnyayamarāmavedāḥ [4320000] | etat eva kṛta-tretā-dvāpara-
kalivarṣānām pramāṇam | asmākam tu yugapādāḥ sarve eva ca tulyakālāḥ |
paurāṇikaiḥ tu bhinnakālāḥ vyākhyātāḥ ā

catvāri āhuḥ sahasrāṇi varṣānām yat kṛtam yugam |
tasya tāvat śatī sandhyā sandhyāṁśah ca tathāvidhah ||
itareṣu sasandhyeṣu sasandhyāṁśeṣu ca triṣu |
ekāpāyena vartante sahasrāṇi śatāni ca ||

[manusmṛtiḥ, 1.69-70]

iti | kṛtapramāṇam viyadambarākāśavasuyamamunicandrāḥ [1728000] | tretāpramāṇam

viyadambarākāśarasasanavārkāḥ [1296000] | dvāparapramāṇam
viyadambarākāśavedarasavasavah [864000] | kalipramāṇam
viyadambarākāśayamarāmavedāḥ [432000] | samāsitāni
viyadambarākāśaśūnyayamarāmavedāḥ [4320000] | kim punar atra yuktam ā
purāṇakāraḥ yathā bhinnapramāṇāni kṛtādīni vyākhyātāni tathā pratipattum, āhosvit
yathā asmākam ācāryeṇa pratipāditāni samapramāṇāni
iti? yathā asmākam prasiddhāni tathā iti āha | yadi purāṇaprakriyāprasiddhāni
yugapādप्रमाणानि parigrhyantām, tadā kaliyugādau grahāḥ mīnameśasandhau
yugapat madhyamagatyā na syuḥ | katham iti ucyate | yugapādānām trayāṇām
ekatrapramāṇam viyadambarākāśāṣṭavasuvāsūrāmāḥ [3888000] iti etaiḥ aharganām
utpādya yathāvihitamadhyamagrahagaṇitaprakriyāyām yugapat mīnameśasandhau
madhyamagrahāḥ na labhyante | anayā eva prakriyayā idānīm
api grahagatyām sādhyamānāyām eva iṣṭagrahāṇām gatiḥ na labhyate | yadi punar
samam eva kṛtādīnām pramāṇam tat idam trayāṇām api yugapādānām pramāṇam
viyadambarākāśaśūnyakṛtayamāgnayah [3240000], anena yātēna sarvam iṣṭam
upapadyate | tasmāt "yathā asmākam prasiddhāni " iti suṣṭhu uktam |

aṣṭottaram sahasram brāhmaṇaḥ divasaḥ grahayugānām | grahayugam iti yat etat
grahasāmānyam yugam tat parigrhyate | tat aṣṭottareṇa sahasreṇa guṇitam prajāpateḥ
ekadivasapramāṇam bhavati | nanu ca atra api paurāṇikaiḥ saha virudhyate | katham?
paurāṇikaiḥ ā

sahasrayugaparyantam ahar yat brahmaṇaḥ viduḥ |
rātrim yugasasrāntām te ahorātravidāḥ janāḥ ||
[bhagavadgītā, 8.17]

iti sahasrayugaparyantam brahmaṇaḥ divasapramāṇam uktam | atra ca aṣṭottaram

sahasram caturyugānām iti | atra tāvat vicāryate | paurāṇikaiḥ ā
"sahasrayugaparyantam ahar yat brahmaṇaḥ viduh" iti abhidhāya taiḥ eva ekasaptatiḥ
caturyugānām manvantaram caturdaśa manavaḥ brāhmaṇaḥ divasaḥ iti [abhihitam] | atra
ekasaptatiḥ caturdaśaguṇitā sahasrasaṅkhyām na prāpnoti | ucyate ca ā caturdaśa
manvantarāṇi brahmaṇaḥ divasaḥ, sahasram caturyugānām iti svavacanavirodhah
| asmākam tu dvāsaptatiḥ caturyugānām manvantaram, aṣṭottarasahasram brāhmaṇaḥ¹
divasaḥ iti yuktisiddham etam | katham punar idam jñāyate dvāsaptatiḥ caturyugānām
manvantaram iti? gītikāsūktatvāt |

kāhaḥ manavaḥ dṝha manuyugāḥ śkha | iti |
[gītikāí, 5] || 8 ||

[utsarpīṇyādiyugavibhāgah]

utsarpīṇyapasarpīṇīsuṣamāduṣṣmāparijñānāya āha āā

utsarpīṇī yugārdham paścāt apasarpīṇī yugārdham ca |
madhye yugasya suṣamā ādau ante duṣṣamā indūccāt || 9 ||

utsarpīṇī nāma yasmin prāṇinām āyuryaśovīryasaukhyādīni upacīyante sa kālaḥ
utasrpīṇīsamjñakah | tasya ca pramāṇam yugārdham | yugasya ardham yugārdham |
yugam tu abhihitam eva | tasya ardhasaṅkhyāpramāṇam utsarpīṇī
viyadamarākāśaśūnyarasenduyamāḥ [2160000] | paścāt apasarpīṇī yugārdham ca |
paścāt iti anena ustarpīṇīkālānantaram apasarpīṇīkālam darśayati | yasmāt
pūrvapravṛttasya paścāt iti vyapadeśaḥ bhavati | yasmin prāṇinām
āyuryaśovīryasaukhyādīni apacīyante sa apasarpīṇīsamjñakah kālaḥ | tasya ca
pramāṇam yugasya paścārdham viyadamarākāśaśūnyarasenduyamāḥ [2160000] |

evam ca ā madhye yugasya suṣamādau ante duṣṣamenūccāt | tasya pūrvārdhasya
madhye suṣamā duṣṣamā ca | ādau ante ca | ādau suṣamā ante duṣṣamā |
suṣamāduṣṣamāpramāṇam yugacaturbhāgah | katham? madhye iti vacanāt |
yugārdhasya ardhām yugacaturbhāgah iti | pratigraham yugabhedāt āha ā "indūccāt" |
indūccāt niṣpannāt yugāt ete utsarpiṇyapasarpinīsuṣamāduṣṣamākālāh avagantavyāh
iti | atha kim ucyate indūccāt iti ? nanu ca grahasāmānyam
yugam iti abhihitam | satyam | evam etat | pratigraham apavartanaviśeṣāt yugabhedah |
tat yathā ā raveh maṇḍalāni ṣaṇmuniśarāh [576], divasapramāṇena yugam api
navavasurāmaśūnyenduyamāh [210389] | candrasya divasapramāṇena yugam
śarayamāṅgaviśayesurūpadasrāh [2155625] | evam anyeṣām api |

atha yugasya kim lakṣaṇam? ucyate ā caitraśuklapratipadi ardhodite savitari laṅkāyām
mīnameśasandhau pravṛttah grahaḥ punar mīnameśasandhau caitraśuklapratipadi
savituh ardhodaye laṅkāyām yāvatā kālena prāpnoti tāvat kālah yugam iti | uktam ca ā

caitrasitādau sūrye viṣuvati ardhodite pravṛttasya |
meṣādeh mīnāntam tathāvidhasya eva samprāptih ||

iti |

bhinnāgṛesu yugesu ekāgrīkaranām kuttākāreṇa abhihitam ā "kaścit dvābhyām ekāgrah
tribhiḥ dvyagrah" iti ādi | athavā indūccāt nimittāt
utsarpiṇyapasarpinīsuṣamāduṣṣamāṇām gatagantavyam vijñeyam iti | katham punar
gatagantavyaparijñānasya indūccanimitvatvam pratipadyate iti ? ucyate ā
kuttākāragaṇitena, yasmāt indūccayātāgrasya indūccabhaṇāh yugavarṣāṇi
yugadivasāh [vā] bhājyabhāgahāratām pratipadyante | tat yathā asmin vastubhiḥ

vā parikalpitah uddeśakah ā

niśīthinīnām adhipasya tuṅgajam gatam tu rāśitritayam yadā bhavet |
tadā kiyat yātam atha āśu gaṇyatām yugasya varṣāgradināgratām ca me || 1 ||

labdham varṣāgram viyadambarākāśaśūnyakṛtayamāgnayah [3240000], dināgram ca
śararavivasuvahnivedarāmavasurudrāḥ [1183438125] |

athavā ayam aparah prakārah ā utsarpinī yugārdham | utsarpati iti utsarpinī, upacīyate
iti arthaḥ | kā sā utsarpinī? grahabhuktih iti adhyāhāryam | sā punar kiyantam kālam
utsarpinī iti āha ā yugārdham | yujyante asmin grahāḥ iti yugam | tat ca nakṣatracakram
eva parigṛhyate, yasmāt ekasmin maṇḍale grahasya grahaiḥ saha yogaiḥ sambhavati |
tasya yugasya ardham yugārdham, ṣaḍrāśayah | paścāt apasarpinī yugārdham ca |
paścāt punar api apasarpinī yugārdham
eva | rāśiṣṭakam iti arthaḥ | madhye yugasya suṣamā, tasya yugasya madhye antare iti
arthaḥ | suṣamā āditah antataḥ ca gaṇyamāne suṣamā, ekasya padasya āditah
aparasya antataḥ iti arthaḥ | [ādau ante ca] duṣṣamā dṛṣṭā | anyaprakāreṇa iti
vākyāśeṣah |

katham etāḥ punar utsarpinīyapasarpinīsuṣamāduṣṣamāgrahabhuktayah vijñāyante iti
atra āha ā indūccāt, candrakendrāt iti arthaḥ | tat yathā ā indoh kendrasya yadā
rāśitrayam dvau bhāgau aṣṭāvimiṣatih ca kalāḥ, tadā prabhṛti madhyamabhuktih
upacīyate, yāvat kendram rāśiṣṭakam samjātam iti | tataḥ tasmāt rāśiṣṭkāt kendrāt
upacitānām bhuktinām utkrameṇa apacayaḥ, yāvat kendrasya aṣṭau rāśayah
saptavimiṣatih bhāgāḥ dvātrimśat liptāḥ ca samjātāḥ
| etāḥ eva utkrameṇa dvitīyapadāntāt pravigāṇyamānāḥ tulyāḥ iti ādau ante ca suṣamā |
athavā ādau ante ca, dvitīyapadānirdiṣṭakendrāt prabhṛti krameṇa yāḥ bhuktayah yāḥ

ca tṛṭīyapadānirdiṣṭakendrāt utkramenā bhuktayah tāḥ tulyāḥ, evam
caturthaprathe mapadayoḥ api, iti ādau ante ca suṣamā | anyathā duṣṣamā |

atra indukendram uddiṣya ācāryeṇa utsarpīyapasarpiṇīsuṣamāduṣṣamāḥ pradarśitāḥ |
etat vidhānam anyeṣām api grahāṇām pratipattavyam | tat yathā ā sūryasya yadā
kendram rāśitrayam sacatuṣpañcāśalliptam, tadā sūryasya vyāsārdhatulyah karṇah,
bhuktih ca madhyamā | yadā ca aṣṭau rāśayah ekonatrimśadbhāgāḥ liptāḥ ca ṣaṭ gatāḥ
[tadā api] vyāsārdhatulyah [karṇah], madhyamā bhuktih ca | kujā[dīnām api]
vyāsārdhatulyam bhūtārāgrahavivaram
bhavati | tathā "[kakṣyāpratimāṇḍalagāḥ]" [kālakriyā, 17] iti asyām kārikāyām vakṣyate ||
9 ||

[āryabhaṭajanmakālah]

ācāryāryabhaṭah svajanmakālajñānārtham āha ā
śaṣṭyabdhānām śaṣṭih yadā vyatītāḥ trayah ca yugapādāḥ |
tryadhikā vimśatiḥ abdāḥ tadā iha mama janmanah atītāḥ || 10 ||

śaṣṭyabdhānām śaṣṭih | śaṣṭih abdāḥ śaṣṭiguṇāḥ iti arthaḥ | yadā vyatītāḥ | yadā yasmin
kāle, vyatītāḥ vyatikrāntāḥ | trayah ca yugapādāḥ | yugasya pādāḥ yugapādāḥ, te ca
yadā trisaṅkhyāḥ vyatītāḥ | tryadhikāḥ vimśatiḥ abdāḥ | tribhiḥ adhikāḥ tryadhikāḥ
vimśatiḥ abdāḥ | tadā | tasmin kāle | mama janmanah atītāḥ |

etat eva ācāryāryabhaṭah śāstravyākhyānasamaye vā pāṇḍuraṅgasvāmi-lāṭadeva-
niśāṅku-prabhṛtibhyah provāca | atha atra idam praṣṭavyam ā asya vyākhyānam kim
upakaroti iti? ucyate ā anena atītena kālena pariṣṭātena sukham ādityādīnām kālah

atītah anāgatah vā paṭhyate | atha ca sampradāyāvicchedāt vyatītah kālah vijñāyate | na etat asti | anabhidhāne bahu atra smaraṇīyam | trayāṇām yugapādānām varṣasaṅkhyā śūnyāmbarākāśaviyadvedayamāgnayah

[3240000] | gatam ca kalyugasya | ekasya abhidhāne etāvataḥ tāvat sampradāyāvicchedāt arah na kartavyah | kintu ācāryajanmakālāvadheḥ yaḥ uttaraḥ kālah asya eva sampradāyāvicchedaḥ adhigantavyah |

anyat ca "śaṣṭyabdānām śaṣṭih" iti asya abhidhāne prayojanam abhidhāsyate | ayam asya abhiprāyah ā kṛtayugādeḥ ahargaṇah sādhyah | anyathā kṣepaḥ śaśyuccapātayoh jāyate iti | kṛtayugādeḥ punar ahargaṇe kriyamāṇe śaśyuccapātayoh na eva kṣepaḥ | "budhāhnyajārkodayāt ca laṅkāyām" [gītikāi, 4] iti budhādih ahargaṇah divasavārah | idānīm tu laghuganitavyavahārārtham kalyugāhargaṇah kriyate | śukrādivasavārah | candroccasya rāśitrayam, rāśisaṭkam
ca rāhoḥ kṣepaḥ, tamasaḥ ca maṇḍalāt vilomatvāt viśodhyate | athavā karaṇāgatam eva tamah yathā iṣṭasphuṭacandramasi prakṣipya dakṣiṇottaradigvidheḥ vikṣepānayanam iti |

atha ahargaṇe dṛṣṭe grahagatyānayanam ā yadi yugāhargaṇena grahāṇām gītikābhihitabhagaṇāḥ labhyante anena ahargaṇena kiyantah iti, labdham samatikrāntāḥ bhagaṇāḥ | śeṣe dvādaśādiguṇite rāśyādimadhyamagrahasiddhiḥ |

atha atra romakāḥ pratyabdaśodhanena ādityam ānayanti | tena ca ādityena sarvān eva grahān iti | etat atra api pradarśyam | tat yathā ā pratyabdaśodhanam hi nāma caitraśuklapratipadi ardhodayāt ārabhya yāvat ādityaudayikasya maṇḍalagantavyasya bhogakālah | sa yugānte yugaravibhagaṇaiḥ pramāṇecchābhūtaiḥ divasasaṅkhyāḥ eva bhavanti | yathā iṣṭaravibhagaṇaiḥ traīrāśikam kriyate, tat yathā ā "yadi yugaravibhagaṇaiḥ bhūdivasasaṅkhyāḥ ahargaṇah

labhyate iṣṭaravibhagaṇaiḥ kiyān iti ahargaṇaḥ labhyate, śeṣe ṣaṣṭyādigunite
ghaṭikādayaḥ iti ravibhagaṇasamāptikālāvadheḥ ahargaṇaḥ labhyate | tasmāt
caitraśuklāvadhiniśpannavarṣantikāḥ ahargaṇaḥ śodhyate, caitraśuklādeḥ upariṣṭāt
ravibhagaṇasamāptikālāvadhayaḥ bhaviṣyanti |

athavā varṣantikena ahargaṇena traīrāśikam ā yadi caturyugāhargaṇena khughr-tulyāḥ
sūryabhagaṇaḥ labhyante, anena kalyātāhargaṇena kiyantah iti labdham bhagaṇaḥ |
śeṣāt gatagantavyam kṛtvā gatagantavyarāśeḥ yugasūryabhagaṇaiḥ bhāgalabdhām
divasāḥ | śeṣe ṣaṣṭyādigunite ghaṭikādayaḥ | caitraśuklādeḥ upariṣṭāt adhaḥ vā
ravibhagaṇasamāptikālāvadhayaḥ divasādayaḥ bhavanti | etat eva pratyabdaśodhanam
asmābhiḥ karmanibandhe laghutaram
pratipāditam | tat yathā ā

rudraiḥ sahasrahaṭaṣṭchakalaiḥ ca hatvā
varṣāṇi randhravasuvahnisamānasāṅkhyaiḥ |
yuktvā sadā pravigaṇayya kharāmabhakte
māsāḥ bhavanti divasāḥ ca hṛte avaśiṣṭāḥ ||

saṁhatya randhrayamalaiḥ sararāmabhāgah
bhūyaḥ agnivedaguṇiteṣu haret ca bhāgam |
khavyomakhadvimunibhiḥ pralayāḥ tithīnām
saṁyojya bhūtayamarudraḥ te dināni ||

varṣeṣu randhrakṛtacandrasamāhateṣu
ṣaṭṣaptapañcavihṛteṣu dinādilābhah |
te yojitāḥ daśahatāsu samāsu samjñām
samprāpnuvanti ravijāḥ iti niścayah me ||

ravijadivasayojojāḥ ca avamāḥ ye atra labdhāḥ
satatam adhikamāsān śodhayet khāgninighnān |
bhavati yat avaśiṣṭam śodhanīyam samāyām
yadi tat adhikaśuddham kṣeṣyam eva upaśiṣṭam || iti |

[mahābhāskarīyam, 1.22-23, 27-28]

evam pratyabdaśodhanam ānīya tataḥ arkaḥ sādhyate | katham? etat api tatra uktam
eva ā

madhusitadivasādyāḥ hīnahīnah gaṇaḥ ahnām
divicarahṛtaśiṣṭaḥ vāramāhābdapādim |
tataḥ idam api śodhyam śodhanīyam samāyām
patitasamatiriktaḥ grhyate na aparaḥ atra ||

saptatyā divasādyāḥ śarabhāgāḥ dviguṇitāḥ vighaṭīkāḥ ca |
tadrahitāḥ grahadehaḥ ravibudhabhṛgavaḥ ca nirdiṣṭāḥ || iti |
[mahābhāskarīyam, 1.30-31]

evam sūryaḥ siddhaḥ | [tasmāt bhagaṇeṣu] dvādaśaguṇiteṣu sūryabhuktarāśayaḥ
prakṣipyante | tataḥ trimśadguṇiteṣu bhāgāḥ iti | evam sūryāhargāṇaḥ siddhaḥ |
sūryāhargāṇa[tulya]m amśam ādityaḥ bhuṇkte |

atha sarveṣām grahāṇām sūryadivasabhogaṇayanam | yugaravyabdāḥ
śaṣṭiśatatrāyaguṇitāḥ yugaravidivasāḥ | yadi etaiḥ abhīṣṭagrahabhagaṇāḥ labhyante,
tadā ekena ravidivasena kiyantaḥ iti traīrāśikanyāyena [labdham bhagaṇātmikā

grahagatih] | rāśibhāgaliptānayane dvādaśa-trimśat-śastih ca gunakārāḥ | teśām
saṃvargah khakhaṣadghanah | ataḥ khakhaṣadghanasya khakhaṣadghanabhāge
ekam, yugaravidivasānām khakhaṣadghanabhāgena dvāsaptatiḥ sahasrāṇi,
iti ataḥ dvāsaptatisahasraiḥ pratisvasvagrahabhagaṇānām bhāgah, labhyante
grahānām sūryadivasabhuktayah ataḥ ca yathālabdhāḥ likhyante ā candramasāḥ liptāḥ
dvāvīmśatiḥ liptātrisahasrabhāgāḥ navavasurāmāḥ, bhaumasya liptāḥ ekatrimśat
liptātrisahasrabhāgāḥ rūpakhamunipaksāḥ, bṛhaspateḥ liptāḥ pañca
liptāpañcasaptatyuttaratriṁśatabhāgāḥ dvāvīmśatiḥ, śanaiḥ carasya liptādvayam
liptāṣṭādaśasahasrabhāgāḥ śaśikṛtarasāḥ, budhoccasya liptāḥ nava
liptāṣṭātrimśacchatabhāgāḥ
śaśīṣuvedāḥ, bhṛgoḥ liptāḥ saptatriṁśat liptāṣṭasahasrabhāgāḥ navanavendurāmāḥ |
evam yathāvilikhitasūryadivasagrahabhuktibhiḥ sūryāharganam gunayet,
sūryabhuktaliptābhiḥ ca traīrāśikena yat avāptam phalam prakṣipya khakhaṣadghanena
vibhajet, śeṣam grahabhuktaliptāḥ | iyān tatra viśeṣaḥ candramasi trayodaśaguṇaḥ
sūryaḥ kṣepaḥ, budhocce caturguṇaḥ, śukrocce rūpaguṇitaḥ iti | etat api
aśeṣagrahānayanam karma laghutaram eva karmanibandhe pradarśitam
tatra eva avagantavyam iti || 10 ||

[yugādikālānantyanirdeśaḥ]

kālapravṛtyānentyapratiṣṭānāya āha ā

yugavarṣamāsadivasāḥ samam pravṛttāḥ tu caitraśuklādeḥ |
kālaḥ ayam anādyantah grahabhaiḥ anumīyate kṣetre || 11 ||

yugam ca varṣam ca māsaḥ ca divasaḥ ca yugavarṣamāsadivasāḥ, ete samam
pravṛttāḥ yugapat pravṛttāḥ iti arthaḥ | kasmāt iti āha ā caitraśuklādeḥ | caitraḥ māsaḥ,

tasya [yah] śuklah pakṣah, tasya śukla[pakṣa]sya yah ādih, [sa] ardhodayah iti arthah,
tasmāt caitraśuklādeḥ yugādayah ye te yugapat pravṛttāḥ | nanu ca yuge caitraśuklādeḥ
pravṛtte sarve eva samam pravṛttāḥ syuḥ | tasmāt yugam caitraśuklādeḥ pravṛttam iti
etat eva astu | na iti āha ā śāstrāntare
varṣādīnām anyasmāt pravṛttih abhihitā ā

prathame vāsavasya amṣe dvitīyāmṣe tu ajasya tu |
revatīnām tṛtīyāmṣe caturthāmṣe yamasya ca ||

saumyasya prathamāmṣe ca dvitīyāmṣe punar vasoh |
sārpasya amṣe tṛtīye tu caturthāmṣe bhagasya ca ||

tvāṣṭrasya ādyāmṣake ca eva dvitīyāmṣe viśākhayoh |
aindrasya amṣe tṛtīye ca āpyasya amṣe caturthake ||

yadā samānām adhipah br̥haspatih ataḥ utthitah |
udayati amṣakānte vā prathamah paryayah bhavet ||

iti|

evam varṣānām pravṛttih atidūrabhinnā | tasyām ca varṣapratītau bhinnāyām
māsadivasapratīti api bhinne eva bhavataḥ | athavā evam syāt ā iyam varṣānām
pravṛttih nānāprakārā phalārthibhiḥ saṃhitākāraiḥ upadiṣṭā | na eṣā prasiddhā loke, na
paratantreṣu | tasmāt yā paratantreṣu loke ca prasiddhā pravṛttih tasyāḥ grahaṇam
bhaviṣyati iti | etat api na | tat yathā ā surāṣṭrāsu kārtikaśuklapratipadah pravṛttih
varṣamāsadivasānām, āsvayujah [kr̥ṣṇa]pañcadaśyām
nivṛttih | tathā ca magadhāsu āśāḍhe kr̥ṣṇapratipadah samāmāsadivasānām pravṛttih,

āśādhasitapañcadaśyām nivṛttih | tathā ca arthaśāstre api abhihitam ā "triśatam
sacatuśpañcāśatam ahorātrāṇām karma sāmvatsarah, tam āśādhiparyavasānam ūnam
pūrṇam vā dadyāt" iti | simharājena sahasrāksare nibaddham ā

ravyudaye laṅkāyām āśādhipaurṇamāsyām tu somadine |
kṛtakṛtavarṣaiḥ yātaiḥ śakendrakālāt yugasya ādiḥ ||

iti |

yugādīnām caitraśuklādeḥ pravṛtyabhidhānam siddham eva etat |

idānām praṣṭavyam ā simharājena na śuklāntah māsaḥ svatantra pratipāditah, tathā ca
loke śuklāntah eva prasiddhaḥ, horāyām api ā

candrayutāt navabhāgāt māsaḥ śuklāntanāmasamah |

iti |

atra ucyate ā yat tu simharājena abhihitam tat svābhīrāyeṇa adhikamāsakāvamānām
yugapat pravṛttatvāt āśādhipaurṇamāsī [taḥ ārabhya caturdaśī] paryantāvasānam
sāmvatsarah iti parikalpitah | yadi api ucyate "śuklāntah māsaḥ loke prasiddhaḥ" iti, tat
na | nanu sarveṣu eva deṣeṣu māsaḥ | santi ca deśāḥ kṛṣṇāntamāsavyavahārāḥ
surāṣṭraprabhṛtayah | yat api ucyate ā

candrayutāt navabhāgāt māsaḥ śuklāntanāmasamah |

iti, asya api anyaḥ eva arthaḥ | candrayutāt navabhāgāt praṣṭuh māsaḥ vācyah | [sa

śuklāntena] nāmnā sadṛśah | śuklānte [na] hi māsasya nāmaparijñānam | kṛttikāsu
yuktaḥ candramā asmin sati kārtikah māsah iti ādi |

anyat ca ā śuklāntena māsena na kadācit api mīnameśasandhau māsasya varṣasya vā
ante grahāḥ syuḥ |

atra āha yavaneśvarah ā

māse tu śuklapratipatpravṛtte pūrve śaśī mandabalaḥ daśāhe |

iti śuklādih māsah | yadā punar śuklādih māsah tadā punar śrutyarthah anuṣṭhitah
bhavati | evam hi śrutau paṭhyate ā

eṣā hi vai samvatsarasya prathamā rātrih yat phālgunī paurṇamāsī yā uttarā |

iti | [yadi] kṛṣṇa[pratipad]ādih māsah syāt, tadā katham iyam uttarā paurṇamāsī phālgunī¹
bhavati, yat uta tat caitramāsah syāt ? kutaḥ? phālgunyām paurṇamāsyām phālgunah
māsah pūrṇah, tadā uttarā paurṇamāsī caitra[māsasya], pratipatkṛṣṇādītvāt māsasya |
tataḥ manyāmahe na adya api phālgunah māsah samāpyate iti | yasmāt āha ā

phālgunī paurṇamāsī yā uttarā |

iti |

anyat ca ā

[yā asau] vaiśākhasya amāvāsyā tasyām agnim ādadhiṭa, sā rohiṇyā sampadyate |

[śatapatha-brāhmaṇam, 11.1.1.7]

iti |

yadi śuklāntah māsaḥ parikalpyate tadā na vaiśākhasya amāvāsyāyām rohiṇyā
candramasaḥ yogaḥ vidyate | yasmāt caitrapaurṇamāsyām citrāyām somaḥ yujyate,
tasyām caitryām vyatītāyām vaiśākhpāratipat | tataḥ ca svātyādiṣu nakṣatreṣu pratipat
[prabhṛti] gaṇyamānā amāvāsyā bharaṇyā yujyate, na rohiṇyā | atha candra-gati-viśeṣāt
iti [cet, na] | nakṣatṛārdhāsya sakalasya vā hrāsavṛddhī bhavataḥ, na nakṣatradvayasya
| śuklādau punar māse vaiśākhpāurṇamāsyām
vyatītāyām vaiśākhasya eva amāvāsyā bhaviṣyati | tataḥ
krṣṇapakṣa-pratipat-prabhṛtyanurādhādiṣu gaṇyamānāsu rohiṇyā amāvāsyāyāḥ ca
yogaḥ saṁbhavati |

anyat ca ā

sah aparapakṣe apa oṣadhiḥ praviṣati |

iti |

śatapatha [11.1.5.3] evam paṭhyate | tatra aparapakṣah krṣṇaḥ, [na] śuklaḥ | anyat ca
smārtavacanam ā

aparapakṣe śrāddham kurvīta ūrdhvam vā caturthyāḥ |

iti atra krṣṇādi[māsatvāt] pūrvapakṣah krṣṇaḥ, aparaḥ śuklaḥ | aparatvāt śuklapakṣasya
śuklapakṣe eva śrāddhavidhiḥ prāpnoti na krṣṇe, iṣyate ca śukle [tare], tasmāt śuklādiḥ

māsaḥ iti | tataḥ "yugavarsamāsadivasāḥ samam pravṛttāḥ tu caitraśuklādeḥ" iti |

atra utpreksitapūrvapakṣaḥ draṣṭavyaḥ | yugādinām caitraśuklādītaḥ pravṛtti]tvāt
kālasya ādimattāprasaṅgaḥ iti āha ā kālaḥ ayam anādyantah | ayam kālaḥ asmābhiḥ¹
yugādiḥ abhihitah, caitraśuklādeḥ pravṛttah iti | na asya antah na asya ādiḥ |
vyavahārārtham ādiḥ antah ca parikalpitah | yadi kālasya ādiḥ syāt tataḥ kim syāt? āha
ā saṃsārasya ādimattā prāpnoti, iṣyate ca anādiḥ saṃsāraḥ iti | tasmāt yuktam "kālaḥ²
ayam anādyantah" iti |

katham punar asya ādiḥ vyavahārārtham parikalpitah iti āha ā grahabhaiḥ anumīyate
kṣetre | grahāḥ ca bhāni ca grahabhāni | taiḥ grahabhaiḥ anumīyate ādiḥ antah ca |
"mān māne" [pāṇiniyadhātupāṭhah 1143] iti ayam dhātuḥ dhūmāt agnyanumānam iti
atra māne vartate | atra punar grahabhaiḥ anumīyate iti mānārthaḥ eva |
vṛīhyādirāśayaḥ prasthādibhiḥ anumīyante, kuṇkumādayaḥ vā palādibhiḥ, evam
grahabhaiḥ iti | yadā sarve eva grahāḥ yugapat
mīnameśasandhau kṣitisamyuktāḥ tadā yugasya ādiḥ iti | kaḥ bhuvah grahasya ca
yogaḥ, dvayoh atyantaviprakṛṣṭayoh? na eṣaḥ doṣaḥ | mukhyasya yogasya
asambhavāt gaunāḥ yogaḥ parigṛhyate | yatra bhūlagnāḥ iva grahaḥ lakṣyate sa
bhūgrahayoh yogaḥ | sa ca udayāstamayayoh saṃbhavati iti udayāstamayayoh vā
parigṛhyate |

anye punar anyathā vyāvarṇayanti ā grahabhaiḥ anumīyate iti | grahaḥ ca nakṣatraliḥ
ca kālasya ādiḥ antah ca parikalpyate | tat yathā ā

udeti yasmin nakṣatre pravāsopagataḥ aṅgirāḥ |
tasmāt saṃvatsaraḥ māsāt bārhaspatyah pragaṇyatām || iti |

br̥haspaticāravaśāt kālasya ādiḥ parikalpitah | loke ca evam vaktārah bhavanti ā "svātau udite prasthāsyāmahe udayah" iti, "śukre astam gate prasthitah" iti, "adya kṛttikāsu madhyasthitāsu dārukah [gatah]" iti ādi | kṣetre | kṣetram bhagolah, tasmin bhagole, nakṣatragrahacāravaśāt ādiḥ antah ca parikalpitah || 11 ||

[grahāṇām samagatitvam]

grahāṇām samagatipratipādanāya āha ā

śaṣṭyā sūryābdānām prapūrayanti grahāḥ bhapariṇāham |
divyena nabhaḥparidhim samam bhramantah svakakṣyāsu || 12 ||

śaṣṭyā sūryābdānām ādityavarṣāṇām śaṣṭyā grahāḥ nakṣatrakakṣyām prapūrayanti,
nakṣatrakakṣyātulyāni yojanāni svāsu svāsu kakṣyāsu gacchanti iti arthaḥ |
[kiyadojanāni] punar nakṣatrakakṣyāyām grahāḥ sūryābdānām śaṣṭyā pūrayanti?
ucyate ā vasuviyadambarākāśarasayamatriśailacandrāḥ [173260008] | na etat
asmābhīḥ nakṣatrakakṣyāpramāṇam dṛṣṭam | kim tarhi? kā eṣā pratipāditā iti? ucyate ā
"bhavāṁśe arkaḥ" [gītikāī, 6] iti | atra katham
punar etena eva nakṣatrakakṣyātulyāni yojanāni gacchanti iti ucyate? yadi khyughṛ-
tulyaiḥ arkavarṣaiḥ svān-svān bhagaṇān grahāḥ bhuñjante [tadā] śaṣṭyā sūryābdaiḥ
kiyantah iti | śaṣṭibhāgena api śaṣṭyā ekaḥ, punar śaṣṭibhāgena ete[śām] khyughṛ-
tulyānām arkavarṣāṇām dvāsaptatisahasrāṇi | evam yathābhāgena avinaṣṭarāśayaḥ
sthāpyāḥ | tataḥ punar api ā yadi ekena bhagaṇena pratisvakakṣyā labhyate [tadā]
śaṣṭyabdabhogenā kā iti sarvagrahebhyah nakṣatrakakṣyā
labhyate |

divyena nabhaḥparidhim | divi bhavam divyam, yugam iti arthaḥ | katham punar

divyaśabdena yugam abhidhīyate? yasmāt divi sañcaratām grahāṇām ekatra yogah
bhavati, ataḥ [divyam yugam uktam tena] divyena nabhaḥparidhim | nabhasaḥ paridhiḥ
nabhaḥparidhiḥ, ākāśakakṣyā iti arthah | katham idam ucyate? nanu ca viyat
aparimitayojanapramāṇam iti śrūyate | tasya parimitayojanapramāṇam katham kakṣyā
bhavet? ucyate ā viyat asmākam yāvat
divasakaramarīcinidhānam avabhāsayati tāvat viyat iti | ataḥ param ākāśam
aprameyam iti | atra khakakṣyābhidhānena etat pratipādayati, iyatpramāṇam
viyadarkamarīcayah prāpnuvanti iti |

samam bhramantah | tulyayā [gatyā] bhramantah iti arthah | yāvanti yojanāni
svakakṣyāyām śāśī samcarati tāvanti eva yojanāni ārkiḥ api svakakṣyāyām sañcarati |
tat yathā ā yadi ekena bhagaṇena svakakṣyā labhyate [tadā] yugabhagaṇaiḥ kim iti
khakakṣyā labhyate | athavā ā ṣaṣṭyabdabhogenā nakṣatrakakṣyā labhyate svaiḥ
yugabhagaṇaiḥ kim iti khakakṣyā labhyate | evam yojanagatena grahāḥ tulyagatayah |
kakṣyātah grahāṇām madhyamānayanam ā yadi
[yuga]bhūdinaiḥ sarve eva svāsu kakṣyāsu samagatyā bhramantah [kha]kakṣyātulyāni
yojanāni prayānti, ekena ahnā kiyanti iti sarvagrahāṇām yojanagatā dinabhuktih
labhyate iti, khakakṣyāyām bhūdinaiḥ bhāge hṛte yojanagatā grahāṇām dinabhuktih
labhyate | tayā traīrāśikam bhaṅktvā madhyamagrahāḥ āṇīyante ā yadi
svakakṣyāyojanaiḥ bhagaṇah labhyate tadā gatiyojanaiḥ kim iti āhnīkī bhuktih labhyate,
tataḥ punar api ā yadi ekena ahnā bhuktih labhyate ahargaṇena
kim iti | atra ekaḥ pūrvatraīrāśike guṇakārah, [apare bhāgahārah] |] ataḥ
guṇakārabhāgahārayoh tulyatvāt naṣṭayoh ahargaṇasya dina[gati]yojanāni guṇakārah
sthitah, [svakakṣyāyojanāni bhāgahārah, labdhiḥ] bhagaṇādayah | [uktam ca] ā

ambarakakṣyā bhūdinahṛtā phalam tatra yojanāni teṣu |
gatāhasaṁguṇiteṣu svagrahakakṣyāptabhaṇādyam ||

iti | a[thavā khakakṣyā]harganāsamvarge svakakṣyābhūdinasamvargahṛte
bhagaṇādayah bhavanti || 12 ||

[grahāṇām samagatitvena kakṣyāvyavasthā]

samagatyā pravṛttagrahakakṣyāvyavasthāpradarśanārtham āha ā

maṇḍalam alpam adhastāt kālena alpena pūrayati candraḥ |
upariṣṭāt sarveṣām mahat ca mahatā śanaiḥ cārī || 13 ||

maṇḍalam alpam adhastāt | sarveṣām adhaḥ vyavasthitam maṇḍalam alpam alpe[na
kālena pūraya]ti candramāḥ | adhastāt iti anena eva maṇḍalasya alpatvasiddhiḥ, alpam
iti etat na vaktavyam | katham adhastāt iti etāvati ucyamāne maṇḍalasya alpatvam
gamyate? ucyate ā upari upari kakṣyāḥ vyavasthitāḥ | tāsām upari upari
vyavasthitānām adhaḥ yā vyavasthitā sā sarvatanīyasī | tasmāt adhastāt [induh] syāt |
na etat asti | "bhānām adhaḥ śanaiḥ cara" [kālakriyāí,
15] iti atra kakṣyāṇām upari upari vyavasthitim vakṣyati | nanu ca anye bruvate ā
sarveṣām upari candramasah kakṣyā iti | [tat ayuktam]] sarveṣām grahāṇām adhaḥ
candrakakṣyā iti āha | yadi upari syāt tadā candraśya grahanakṣatrabhede
sphuṭakalaṅkahariṇe grahanakṣatra[tārāḥ dṛṣyeran] | sūryavaśāt yadi upari candraḥ
syāt tadā sūryeṇa ārāt vyavasthitena sadā candramasoh api svasya ārāt bhāgam
akhaṇḍam dṛṣyeta, uparisthitah [na upalakṣyate] | tasmāt sarveṣām
adhaḥ candramāḥ |

anye punar sugata[matā]valambinah sūryācandramasoh ekām kakṣyām ācakṣate ā

ardhena meroḥ candrārkau pañcāśatsaika[yojanau] |
ardharātrah astagamanam madhyāhnaḥ udayaḥ sakṛ || iti ||

na evam yujyate | yadi pañcāśat yojanāni candraḥ, ekapañcāśat [yojanāni] sūryaḥ tadā
kim iti sūryaḥ [na] mahān upalabhyate, tulyau etau [ardho]ditau ardhaśtamitau
paurnamāsyām laksyete? atha vidūratvāt arkaḥ na mahān upalakṣyate iti cet na | tarhi
mandarārdhe sūryācandramasoḥ dūrībhūtaḥ arkaḥ | anyat ca
tulyakakṣyāvyavasthitatvāt sūryācandramasoḥ sūryagrahaṇam na eva syāt | na ca
candramasam muktvā anyaḥ rāhuḥ asti yena savitā chādyate | yadi api adhaḥ candraḥ
syāt tathā api mahattvāt sūryabimbasya na eva arkaḥ sakalaḥ chādyate | na eva arkaḥ
candreṇa chādyate iti cet tat api uttaratra vyākhyāsyate |

kālena alpena pūrayati candraḥ | alpena stokena kālena pūrayati | kim? tat alpam
maṇḍalam adhaḥ vyavasthitam | upariṣṭāt sarvesām maṇḍalānām mahat maṇḍalam
mahatā kālena śanaiḥ carāḥ pūrayati | etau alpamahatkakṣyāmaṇḍalaparimāṇau
grahau uddiṣṭau, anyeṣām ca [maṇḍalāni svabuddhyā vijñeyāni] | tat yathā ā
candramāḥ divasasaṅkhyayā saptavimśatyā sārdhaikayā maṇḍalam gacchati,
budhaśukraravayah kiñcit ūnena varṣeṇa, bhaumah kiñcit ūnena
varṣadva[yena, guruḥ] tu varṣaiḥ dvādaśabhiḥ kiñcit ūnaiḥ, śanaiścarāḥ tu trimśatā
varṣaiḥ kiñcit ūnaiḥ iti | evam ete bhinnakakṣyāsthāḥ yojanagatena tulyagatayah grahāḥ
vyākhyātāḥ |

atha yadi tulyakakṣyāsthāḥ yojanagatena tulyagatayah eva syuḥ tadā eteṣām yugādeḥ
saṃpravṛttānām na kadācit viyogaḥ syāt | atha [yadi] yojanagatena ete bhinnagatayah
syuḥ tadā eteṣām bhuktiliptānayane yojanaiḥ yathāsvam prasiddhabhuktiliptāḥ na
āgaccheyuh | tasmāt bhinnakakṣyāsthāḥ api grahāḥ yojanagatena tulyagatayah eva iti ||

[bhinnakakṣyāsu rāśyādīnām alpamahattvam]

kakṣyāṇām alpamahattvāt rāśibhāgaliptāḥ bahvyāḥ alpāḥ iti sandehāḥ tannivṛtyartham
āha ā

alpe hi maṇḍale alpāḥ mahati mahāntaḥ ca rāśayaḥ jñeyāḥ |
amśāḥ kalāḥ tathā evam vibhāgatulyāḥ svakakṣyāsu || 14 ||

alpe maṇḍale alpāḥ rāśayaḥ mahati maṇḍale mahāntaḥ, evam amśāḥ kalāḥ ca,
kevalam tu vibhāgena sadṛśāḥ | tat yathā ā alpe mahati ca maṇḍale
maṇḍaladvādaśabhāgaḥ rāśiḥ, ṣaṣṭiśatatrabayabhāgaḥ bhāgaḥ, khakhaṣadghanabhāgaḥ
liptāḥ iti, svāsu svāsu kakṣyāsu jyotiścakrasya tulyatvāt || 14 ||

[grahakakṣyāvasthitikramah]

kakṣyāṇām upari adhaḥ ava[sthiti]kramaparijñānāya āha ā

bhānām adhaḥ śanaiścarasuragurubhaumārkaśukrabudhacandrāḥ |
eṣām adhaḥ ca bhūmiḥ medhībhūtā khamadhyasthā || 15 ||

bhāni jyotiṁsi, aśvinyādīni | teṣām adhaḥ śanaiścarāḥ, tasya api adhaḥ bṛhaspatiḥ,
tataḥ aṅgārakaḥ iti ādi | eṣām adhaḥ ca bhūmiḥ | eṣām nakṣatrādīnām bhūḥ adhaḥ |
medhībhūtā | atra "bhūta"-śabdaḥ bahuṣu artheṣu vartamānaḥ iva arthe pratipattavyaḥ |
medhī iva sthitā | khamadhyasthā | kham ākāśam tasya madhyam khamadhyam, tasmin
sthitā khamadhyasthā | eṣām adhaḥ ca bhūmiḥ iti | atra ucyate ā yadā dṛṣye
cakrārdhe grahanakṣatrāṇi, tadā teṣām adhaḥ bhūmiḥ | yadā atāḥ anyeṣu

grahanakṣatrāṇi smararipusutahukasahajadhaneṣu vartante tadā katham adhah
bhūḥ, yat uta upari syāt | na evam vijñāyate | yasmāt sarveṣām asmadādīnām bhūḥ
adhah, upari ca ākāśah, [tasmāt] sarvadā grahāḥ upari, bhūḥ adhah | vakṣyati ca ā

yadvat kadambapuṣpagranthaḥ pracitaḥ samantataḥ kusumaiḥ |

tadvat hi sarvasattvaiḥ jalajaiḥ sthalajaiḥ ca bhūgolah || iti |

[golaí, 7]

[anye tu imām kalpanām] dūrvipratipannām,
bhagaṇaśanaiḥcarabṛhaspatikujaravisitabudhaniśākarān uparyuparivavasthitān
tulya[gatikān manyante | tat yathā ā yā]vat alpamanḍalam bhāni bhramanti, tāvat
mahānti maṇḍalāni śanaiścarādayah [na] śaknuvanti pūrayitum iti prṣṭhataḥ lakṣyante,
yathākakṣyā[maṇḍalakramena] iti | atra parihāraḥ prāk pradarśitah ā yadi upari syāt
tadā candraśya grahanakṣatrabhede sphuṭakalaṅkahariṇe grahanakṣatrataṭārāḥ
kr̥ṣyeran [prí 212] iti ādinā granthena |

anye manyante ā tulyakakṣyāsthāḥ eva

bhagaṇaśanaiścarabṛhaspatikujaravisitabudhaniśākarāḥ | kintu yathākramena
śīghragatayah | ataḥ drutagatibhiḥ nakṣatraiḥ Ṭīsamandagatih Ṭīsat jīyate, atimandagatih
tu dūrāt iti | Ṭīsanmandagatitvāt śanaiścarah iṣat jīyate, atimandagatitvāt candramāḥ
[dū]ram iti | atra api yadi prāṇmukhāḥ grahādayah tadā prāṇmukhaiḥ drutagatibhiḥ
nakṣatraiḥ jīyamānah aśvinyām dṛṣṭah revatyām upalakṣyeta, na bharanyām |
vakrakāle

api ca, pratilomagatitvāt aśvinyām dṛṣṭah bharanyām eva upalakṣyeta | atha ete
grahādayah aparābhīmukhāḥ kalpyante, tathā api vakrakāle aśvinyām dṛṣṭah
pratilomagatitvāt bharanyām upalakṣyeta | tulyakakṣyāvyavasthitānām ca
lambanaviśeṣah na syāt | anyat ca ā anyonyabimbacchādanam na syāt | grahoparāgaḥ

api ca tulyakakṣyāvyavasthitatvāt na yuṣyate | tasmāt "bhānām adhaḥ śanaiścarah" iti
ādi suṣṭhu uktam || 15 ||

[kālahorādinādhipatijñānam]

kālahorādinādhipatijñāpanāya āha ā

sapta ete horeśāḥ śanaiścarādyāḥ yathākramam śīghrāḥ |
śīghrakramāt caturthāḥ bhavanti sūryodayāt dinapāḥ || 16 ||

ete grahāḥ śanaiścarādayaḥ tulyagatayaḥ api santāḥ yathākramena śīghrāḥ lakṣyante,
maṇḍalānām yathākramena alpatvāt | te eva horeśāḥ yathākramena | tat yathā ā
śanaiścarasya kālahorāyām nivṛttāyām bṛhaspateḥ kālahorā, tataḥ aṅgārakasya, tataḥ
raveḥ iti ādi | evam sūryodayāt prabhṛti yāvat sūryasya ardhāstamayaḥ iti dvādaśa
kālahorāḥ | tataḥ ca ardhāstamayāt ardhodayaḥ iti punar dvādaśa | evam ahorātre
caturvimśatikālahorāḥ | kālahorā hi nāma lagnarāśeḥ
ardhodayasya kālah | sā ca divase divase divasādhipātāḥ prabhṛti pratipattavyā | uktam
ca sphujidhvajayavaneśvareṇa ā

ādityaśukrendujacandrasaurajīvāvaneyāḥ syuḥ aharniśāsu |
horeśvarāḥ taddivasādhipādikramena tāḥ tatra caturguṇāḥ ṣaṭ ||

evam divasādhipāt sūryodayāt gāṇyamānāt uttaradivasasya adhipāt eva ardhodayāt
śīghrakramāt caturthaḥ, yaḥ śīghrakramāḥ abhihitāḥ "bhānām adhaḥ śanaiścarah" iti
ādi tasmāt caturthaḥ divasādhipatiḥ | tat yathā ā śanaiścarāt caturthaḥ sūryaḥ
divasādhipatiḥ, sūryāt somaḥ caturthaḥ, somāt aṅgārakaḥ iti ādi | evam anena kramena
māśādhipāḥ abdādhipāḥ ca avagantavyāḥ | katham? [māśasya varṣasya ca yaḥ]

prathamadivase adhipah sa māsādhipah varṣādhipah ca
| sūryodayāt dinapah | sūryasya udayah sūryodayah | yadi api śeṣeṇa uktah
sūryodayaśeṣeṇa ardhodayah pratipattavyah | kutah? idam bimbāvayavābhidhāne api
tadavayavapramāṇasya mānakālāvadhāraṇāśakyatvāt ardhodayasya ca
vyaktalakṣaṇatvāt suparicchedanayā ardhodayah āśriyate | athavā anirdiſteṣu vastuſu
madhyamapratipatteḥ ardhodayāt ārabhya punar ardhodayah iti |

atra kecit ardhāstamayāt vārapravṛttim manyante | tat ca ayuktam | yasmāt uktam ā

āśīt idam tamobhūtam aprajñātam alakṣaṇam |
apratarkyam avijñeyam prasuptam iva sarvataḥ ||
[manusmṛtiḥ, 1.5]

atra janapadajyotiścakrābhāvāt na vārādīvyavahārah sañjātaḥ | yadā protpannah
sahasrakiraṇah tadā prabhṛti vārādīvyavahārah sañjātaḥ iti | ataḥ suṣṭhu uktam
sūryodayāt dinapah iti || 16 ||

[pratimāṇḍalavidhinā grahagatinirūpaṇam]

ete grahāḥ kasmin maṇḍale bhramanti iti [na jñāyate] ataḥ tannirūpaṇāya āha ā

kakṣyāpratimāṇḍalagāḥ bhramanti sarve grahāḥ svacāreṇa |
mandoccāt anulomam pratilomam ca eva śīghroccāt || 17 ||

kakṣyāyāḥ pratimāṇḍalam kakṣyāpratimāṇḍalam, tat gacchanti iti
kakṣyāpratimāṇḍalagāḥ | athavā kakṣyā ca pratimāṇḍalam ca kakṣyāpratimāṇḍale, te
gacchanti iti kakṣyāpratimāṇḍalagāḥ | atra kakṣyāgāḥ madhyamāḥ grahāḥ, sphuṭāḥ

[prati]maṇḍalagāḥ | athavā kakṣyāpratimāṇḍalayoh yatra sampātah sa
kakṣyāpratimāṇḍalaśabdena ucyate | tam gacchanti iti kakṣyāpratimāṇḍalagāḥ | atra
anekatvāt vigrahayogasya, katamah vigrahāḥ parigṛhyate iti sandehe
ucyate ā kakṣyā ca pratimāṇḍalam ca kakṣyāpratimāṇḍale | te gacchanti iti
kakṣyāpratimāṇḍalagāḥ, iti ayam parigṛhyate | katham? iṣṭatvāt
śeṣavigrahārthavācakatvāt ca atra iṣyate | kakṣyāgāḥ madhyamāḥ grahāḥ yasmāt
tulyabhuktayah, pratimāṇḍalagāḥ sphuṭagrahāḥ yataḥ sasadrśabhuktayah |

atha ke te madhyamāḥ, ke vā sphuṭāḥ grahāḥ? nanu ca ekaḥ eva sūryaḥ, ekaḥ eva
candramāḥ, ekaḥ eva aṅgārakah iti ādi | madhyamasphuṭatāyām parigṛhyamāṇāyām
grahadvayam prāpnoti | na evam vijñāyate madhyamah grahāḥ sphuṭāḥ grahāḥ iti |
katham tarhi? madhyamagrahaśabdena madhyamagrahasya grahagatih abhidhīyate,
sphuṭagrahaśabdena ca sphuṭagrahagatih iti? tat yathā ā kaścit sāṁvatsaram pṛcchati ā
"kaḥ savitā" iti, sa tasmā āha ā rāśih
ekaḥ pañcadaśa bhāgāḥ trimśat liptāḥ iti | tatra yaḥ paripṛcchati yaḥ ca ācaṣṭe tayoḥ
ubhayoh abhi[prāya]dvayaprasaṅgaḥ | na eṣa doṣaḥ | yā madhyamā gatiḥ sā
sphuṭagatisādhanasya upāyah | anyathā aniyatatvāt sphuṭagatih aśakyā syāt vijñātum |
evam eva ca [madhyamagrahāḥ] pratimāṇḍalaparijñānārtham parikalpitah | yat asya
grahasya vyāsārdhatulyam bhūtārāgrahavivaram sa tasmāt pradeśāt prabhṛti
kakṣyāmaṇḍalasya upari adhaḥ vā avatiṣṭhate |

atha kaḥ asau ayam pradeśaḥ? ucyate ā yadā tṛtīye karmanī dvitīye pade
mandoccakendram rāśitrayam dvau bhāgau pañcāśat liptāḥ, tadā bṛhaspateḥ
mandoccakarṇaḥ vyāsārdhatulyaḥ | caturthe karmanī yadā śīghroccakendram
rāśitrayam pañcabhāgāḥ viṁśatiḥ ca kalā, tadā vyāsārdhatulyaḥ śīghroccakarṇaḥ | atra
vyāsārdhatulyam bhūtārāgrahavivaram | asmāt pradeśāt prabhṛti bhūtārāgrahavivaram
pratidinam apacīyate | anayā yuktyā śeṣāṇām api grahāṇām

vyāsārdhatulyam bhūtārāgrahavivaram ūhyam |

bhramanti sarve grahāḥ svacāreṇa iti etat nigadavyākhyānam eva | mandoccāt anulomam | "mandoccāt" iti hetau pañcamī | tena mandoccāt hetoh anulomam iti vyākhyāyate, yasmāt na mandocce vakraparijñānam | pratilomam ca eva śīghroccāt | śīghroccāt hetoh pratilomam, yasmāt śīghrocce vakraparijñānam | katham punar śīghrocce vakraparijñānam? ucyate ā yadā śīghroccakendram dvitīyapade tadā sarve grahāḥ vakriṇāḥ bhavanti, yadā ca tṛtīyapade śīghroccakendram tadā anuvakragatayah | uktam ca ā

grahonaśīghragraheṣu kṛtaṣadvasuṣu kramāt |
bhavet vakrātivakrā ca tathā anukuṭilā gatiḥ ||

iti | sūkṣmataraḥ [ca ayam] vidhiḥ iti | ucyate ā yadā adyatanāt grahāt śvastanaḥ grahaḥ tulyaḥ bhavati tadā vakraprārambhaḥ | athavā hyastanāt grahāt adyatanāt grahaḥ tulyaḥ tadā api vakraprārambhaḥ | yadā adyatanāt tṛtīyapade śvastanaḥ grahaḥ adhikāḥ tadā vakrasya nivṛttih | athavā hyastanāt grahāt adyatanāt grahaḥ adhikāḥ tṛtīyapade tadā api vakrasya nivṛttih | yadā grahaḥ bahvīḥ liptāḥ nivartate tadā ativakragatiḥ |

katham punar idam vidhānam śīghroccāt eva gaṇakaḥ prajānate, na punar mandoccāt iti? ucyate ā yasmāt sūryavaśāt grahāṇām udayāstamayavakrānuvavrāḥ gatayah | yadi evam atra katham budhaśukrayoḥ anyat śīghroccam, [madhyah] sūryaḥ | atra api sūryavaśāt eva tayoḥ udayāstamayaparijñānam | vakragatiḥ tu ekatvāt upāyāntareṇa vijñāyate | athavā uccānicamadhyamaparidhiḥ iti evamādisphuṭagatisādhanopāya[bhūtānām ca] upāyānām na [eva niyamo]ktiḥ vā vidyate | kevalam tu upeyasādhakāḥ upāyāḥ | tasmāt iyam sarvā prakriyā asatyā, yayā grahāṇām sphuṭagatiḥ sādhyate | [evam ca paramārthajijñāsubhiḥ asatyopāye]na

satyam pratipadyate | tathā hi bhiṣajah hi utpalanālādiṣu vadḥādīni abhyasyante |
nāpitāḥ piṭharādiṣu muṇḍanādīni, yajñāśāstravidah śu[ṣkeṣṭyā] yajñādīni, sābdikāḥ
prakṛtipratyayavikārāgamavarṇalopavyatyayādibhiḥ śabdān pratijānate | evam atra api
madhyamamandoccaśīghroccatatparidhijyākāṣṭhabhujākoṭikarṇādi-vyavahāreṇa
sāṁvatsarāḥ grahāṇām sphuṭagatim pratijānate | tasmāt upāyeṣu asatyēṣu
satyapratipādanapareṣu na codyam asti |

atha kim artham ime grahāḥ pratidinam bhrāmyanti | atha ca loke kaścit bhraman
kāraṇena bhramati | anyat ca ā na evamvidhaḥ kaścit dṛṣyate anavaratagatiḥ yathā ime
tārāgrahāḥ bhramanti iti dṛṣṭāntatvena udāharaṇabhūtaḥ iti | ucyate ā sarvādau kila
bhagavān prajāpatiḥ grahān uktavān yat "bhavantah meṣādigaṇeṣu prajānām
śubhāśubhaphalāya bhrāmyata" iti | uktam ca sphujidhvajayavaneśvareṇa ā
prajāḥ sisṛkṣuḥ kila viśvadhātā
prajāpatiḥ prāgvratam ācacāra |
sa dvādaśāṅgaprabhavam svadeham
sr̥ṣṭvā āditaḥ vai bhagaṇam sasarja ||
tebhyah sa meṣādigaṇān prajajñe
tebhyah ca tadbhedavikalpataḥ anyān |
ataḥ bhavargasya vibhuḥ praṇetā
prajābhavābhāvavidhīśvaratvam || iti ādi |

athavā śabdena arthānumānam kriyate | śrūyante ca śabdāḥ ye ca apere atra
gativācakāḥ | tat yathā ā "pathaḥ ṣkan" [aṣṭādhyāyī, 5.1.75] iti vartamāne "panthaḥ ṣa
nityam" [aṣṭādhyāyī, 5.1.76] iti anena nityam panthānam gacchatī iti asmin arthe
pānthaḥ iti ayam śabdāḥ | atra loke na kaścit adhvānam anavaratam gacchan dṛṣyate,
tasmāt amī eva grahāḥ pānthaḥ | na ca ayam śabdāḥ asatsvārthesu
śāśaviṣāṇakūrmāromavandhyāputraśabdavat pravṛttāḥ | tasmāt

suṣṭhu ucyate śabdena arthānumānam pānthāḥ grahāḥ iti |

athavā ayam aparah prakārah | mandoccāt anulomam pratilomam ca eva śīghroccāt |
mandoccāt yataḥ mandoccakendrāt pratimaṇḍalavidhānena ānītam phalam pratyaham
upacīyate | kva? anyasya aśrutatvāt mandocce eva | tasmāt mandoccāt anulomam |
pratilomam ca eva śīghroccāt | yasmāt pratimaṇḍalavidhānena ānītam phalam sarvadā
apacīyate | kutah? anyasya aśrutatvāt śīghroccāt eva | tasmāt "pratilomam ca eva
śīghroccāt" iti || 17 ||

[pratimaṇḍalavidhānam]

sphuṭāḥ pratimaṇḍale bhramanti iti uktam, ataḥ tajjñāpanāya āha ā

kakṣyāmaṇḍalatulyam svam svam pratimaṇḍalam bhavati eṣām |
pratimaṇḍalasya madhyam ghanabhūmadhyāt atikrāntam || 18 ||

kakṣyāmaṇḍalatulyam | kakṣyāmaṇḍalena tulyam kakṣyāmaṇḍalatulyam |
kakṣyāmaṇḍalapramāṇam "śaśirāśayaṣṭha cakram" [gītikāi, 6] iti etasmin sūtre
vyākhyātam | svam svam pratimaṇḍalam ātmīyam ātmīyam pratimaṇḍalam, bhavati |
eṣām grahāṇām | pratimaṇḍalasya madhyam | yat madhyam kendram tat
ghanabhūmadhyāt atikrāntam | ghanāḥ ca asau bhūḥ ca ghanabhūḥ, tasyāḥ
ghanabhuvaḥ madhyam ghanabhūmadhyam, tasmāt ghanabhūmadhyāt,
atikrāntam nirgatam uparisthitam iti arthaḥ | tat yathā ā yāvat pramāṇaparikalpitam
śaṣṭiśatratrayāṁśāvacchinnam kakṣyāmaṇḍalam pūrvāparam ūrdhvam vinyasya, tādṛś
eva anyat maṇḍalam upari adhaḥ kakṣyāmaṇḍalāt vakṣyamāṇena antareṇa
pūrvāparayoh diśoh yatra sampātah tatra yat badhyate gole tatpratimaṇḍalam nāma |
evam ete kakṣyāpratimaṇḍale vyākhyāte || 18 ||

[nīcoccavṛttividhinā grahagatipratipādanam]

kakṣyāpratimāṇḍalāntarapratipādanārtham āha ā

pratimāṇḍalabhbūvivaram vyāsārdham svoccañcavṛttasya |
vṛttaparidhau grahāḥ te madhyamacārāt bhramanti evam || 19 ||

pratimāṇḍalasya bhūmaṇḍalasya ca vivaram pratimāṇḍalabhbūvivaram | vyāsārdham
svoccañcavṛttasya | uccavṛttam nīcavṛttam ca uccanīcavṛttam, svasya uccanīcavṛttam
svoccañcavṛttam, tasya svoccañcavṛttasya vyāsārdham pratimāṇḍalabhbūvivaram | tat
yathā ā "jhārdhāni mandavṛttam" iti adhikṛtya "śaśināḥ cha" [gītikāí, 10] iti sapta śaśināḥ
jhārdhāni uccanīccavṛttam, sārdhaikatrimśadbhāgapramāṇam iti arthaḥ | yasya yat
vyāsārdham tat trairāśikaganītena

siddham | yadi "caturadhikam śatam aṣṭaguṇam" [gaṇitaí, 10] iti evamādeḥ paridheḥ
ayutatulyam vyāsārdham labhyate tadā sārdhaikatrimśadbhāgapramāṇasya paridheḥ
kim iti labdham bhāgāḥ pañca, liptā ca ardhādhikena ekā | sūryasya api trīṇi jhārdhāni
mandavṛttam, sārdhatrayodaśabhāgapramāṇam, tasya ca trairāśikena
svavṛttaviśkambhārdham labdham bhāgadvayam, ardhādhikena nava liptāḥ | athavā ā
yadi ṣaṣṭīśatatraya[bhāgamita]paridheḥ [vasutrikṛtavahniliptāmitam]
vyāsārdham labhyate tadā uccanīcaparidheḥ kim iti labdham candraśya
uccanīcavyāsārdham liptātriśatī sārdhādhikarūpā | evam sūryasya api śatam
ekonatrimśaduttaram [sārdham] | tatra bhāgapramāṇena liptāpramāṇena vā
kakṣyāpratimāṇḍalamadhyāntaram parikalpyam | evam sūryācandramasoh | anyathā
anyeśām samavisamavṛttamandoccaśīghroccabhedena
anekapratimāṇḍalaprasaṅgabhayāt uttaratra vakṣyati ā "bhūtārāgrahavivaram"
[kālakriyāí, 25] iti | vṛttaparidhiḥ

kakṣyāmaṇḍalam, tasmin vṛttaparidhau madhyamacāram grahāḥ bhramanti |
pratimaṇḍaleṣu sphuṭacāram bhramanti iti arthāt avasīyate || 19 ||

[nīcoccavṛttaparidhau grahagatih]

grahabhuktyānayanavakraparijñānāya āha ā

yah śīghragatih svoccāt pratigomagatih svavṛttakakṣyāyām |
anulomagatih vṛtte mandagatih yah grahah bhavati || 20 ||

śīghrā gatih yasya tat śīgrahgatih, śīghragatih ca tat svoccam ca śīghragatih svoccam,
śīghratatiḥsvoccāt yah pratigomagatih śīghragatih | svoccaśabdena svaśīghroccabhuktih
parigṛhyate | sā yadi śīghroccabhuktih
svakendrāntajyā[sādhitasphuṭamadhyam]abhukteḥ [na patati] tadā sā eva
sphuṭamadhyamā bhuktih svakendrāntajyāsādhitā svaśīghroccabhukteḥ pratiłome[na]
pātyate | tadā śīghragatih svoccagatih iti ucyate | pratiłomaśabdena ca
viparītāpātitaśeṣaliptāḥ
parigṛhyante | evam ayam vigrahārthaḥ niśpannah bhavati | pratiłomā gatih yasya sah
pratigomagatih iti |

āditah eva etat bhuktyānayanam prati vakṣyate | tat yathā ā mandoccakendrāntajyām
krameṇa utkrameṇa vā niśpannām svamadhyamabhuktiliptābhiḥ guṇayet | punar ca tat
kālapratidhinā guṇitasya aṣṭādaśabhiḥ sahasraiḥ bhāgalabdham kendrapadavaśāt
ardhīkṛtya grahamadhyamabhuktiliptāsu prakṣipya viśodhya vā
svaśīghroccabhuktiliptābhiḥ śodhayet | śeṣam
svaśīghroccakendrāntajyākramotkramajyāguṇam tat kālaśīghroccaparidhinā guṇayet |
bhāgaḥ aṣṭādaśabhiḥ

sahasraiḥ | labdham vyāsārdhagatam svakarṇena vibhajet | labhdasya ardham
kendrapadavaśāt grahamadhyamabhuktiliptāsu kṣipet, viśodhayet vā | tataḥ tam
kṣiptaviśodhitaśeṣam gr̥hītvā tr̥tyakarma ā mandoccakendrāntajyākramotkramajyām tat
kālaparidhiguṇam aṣṭādaśabhiḥ sahasraiḥ vibhajet | labdham samastam eva
grahamadhyamabhuktiliptāsu mandakendrapadavaśāt kṣipet, viśodhayet vā | kṣiptam
viśodhitaśiṣṭam vā sphuṭamadhyamabhuktiliptāḥ avinaṣṭāḥ
tāḥ svaśīghroccabhuktiliptābhyaḥ viśodhayet | śeṣam [gr̥hītvā] caturthakarma ā
śīghroccakendrāntajyākramotkramajyām tat kālaparidhiguṇam aṣṭādaśabhiḥ sahasraiḥ
vibhajet | labdham vyāsārdhaguṇam karṇena vibhajet | tatra yad avāptam tat yadi
kṣepyam sphuṭamadhyamabhuktiliptāsu kṣipet, niṣpannā grahasya sphuṭabhuktih | atha
viśodhyam sad yadi sphuṭamadhyamabhuktitāḥ na patati tadā pratigomagatih grahaḥ
sphuṭamadhyamabhuktiliptāḥ eva viparītam
śodhyāḥ | śeṣam vakrabhogaḥ | asmin arthe iyam kārikā ā

yah śīghragatih svoccāt pratigomagatih svavṛttakakṣyāyām |

pratigomagatih vakragatih iti arthaḥ |

anulomagatih vṛtte | asau anulomagatih bhavati | yadā śīghroccāt
śīghroccakendrāntajyāniṣpannā liptāḥ sphuṭamadhyamabhuktiliptābhyaḥ viśuddhāḥ,
tadā asau grahaḥ anuvakrī | tatra ca viśeṣaliptāḥ anulomaśabdavācyāḥ | tataḥ arthāt
ayam vigrahaḥ avasitāḥ ā anulomā gatiḥ yasya sa anulomagatih iti | sa ca alpam
gaccahati iti mandagatih abhidhīyate || 20 ||

[nīcoccavṛttabhramaṇaprakārāntaram]

grahāṇām sphuṭikaraṇaprakārāntaram āha ā

anulomagāni mandāt śīghrāt pratiłomagāni vṛttāni |
kakṣyāmanḍalalagnasvavṛttamadhye grahāḥ madhyāḥ || 21 ||

anulomam gacchatī iti anulomagatīḥ | tat uktam ā mandāt, uktamandoccāvadheḥ
madhyamāt iti | tat atra api śīghroccāvadheḥ madhyamāt iti etat ekaprakrameṇa
bhavitavyam | na iti āha ā śīghrā[t pratiłomaga]tīḥ pratiłomāvadheḥ | śīghroccasya
pratiłomagatīni viparītagatīni yāni vṛttāni paridhayāḥ | atra vṛttasya ekadeśe
vṛttaśabdopa[cārāt paridhayāḥ ca] iti, yathā mandaśīghrakendrayoḥ tajjyākāṣṭhe
dhanūṁṣi | ataḥ tāni dhanūṁṣi mandakendrāt jātāni krameṇa
upa[cīyante, śīghrakendrāt] jātāni utkrameṇa upacīyante | ataḥ "anulomagāni mandāt
śīghrāt pratiłomagāni vṛttāni" | katham punar vṛttāni mandaśīghrakendrayoḥ
tajjyādhanūṁṣi kramotkrama[ga]tīni? gate]ḥ avasthāvācakatvāt | yathā ā

gatiḥ asti iti bhūtānām sukumārāyate manah |
[anastvaniśam eva ūḍham dhuram] vahati gauḥ iva ||

tathā ā

dānam bhogaḥ nāśaḥ tisraḥ gatayaḥ bhavanti vittasya |
yaḥ na dadāti na bhuṅkte tasya tṛṭīyā gatiḥ bhavati ||
[bhartrhariḥ, nītiśatakam, 34]

tasmāt yāni eva jyādhanūṁṣi tāni eva pratiłomānulomagatīni |

atha atra idam praśṭavyam ā mandoccayādhanūṁṣi mandoccāt upacīyante,
śīghroccayādhanūṁṣi śīghroccāt apacīyante | kutah etat? sampradāyāvicchedāt | atha

"vyākhyānataḥ viśeṣapratipattiḥ, na hi sandehāt alakṣaṇam" [aṣṭādhyāyī, śivasūtram 6, pātañjalamahābhāṣyam] iti | athavā mandoccaśīghroccaśravaṇāt mandoccaśīghroccayoh eva pratipattiḥ, anyasya aśrutatvāt ca |

[pratimāṇḍalavidhinā grahasphuṭikaraṇapratikriyā]

ayam āryāsūtrārthaḥ yathā ghaṭate tathā karmaṇā pratipādayiṣyāmah | iṣṭāt grahāt tat mandoccam viśodhayet | śeṣam rāsyādikam mandoccāt pravṛttam tat kakṣyāmaṇḍalotpannam iti pratimāṇḍale kriyate, yasmāt pratimāṇḍale sphuṭagrahāḥ bhramati | tena tasmāt mandoccāt ārabhya yat kāṣṭham tat mahati maṇḍale alpam bhavati | "mahati mahāntaḥ ca rāśayah jñeyāḥ | amśāḥ kalāḥ tathā evam [kālakriyāī, 14] iti | alpe pratimāṇḍale tat eva kāṣṭham bahutaram bhavati, mānālpatvāt | vrīhyādayaḥ mahatā mānaviṣeṣeṇa pramīyamānāḥ prasthādisaṅkhyayā alpāḥ bhavanti, [te] eva alpena mānaviṣeṣeṇa mīyamānāḥ prasthādiśaṅkhyayā bahavaḥ bhavanti evam atra api | katham punar tat kāṣṭham kakṣyāmaṇḍalotpannam pratimāṇḍale pramīyate? ucyate ā tat kāṣṭhasya padāni vyatītāni pratyākalayya vartamānapadasya bhujākoṭijayā karma idam kriyate ā "pratimāṇḍalasya madhyam ghanabhūmadhyāt atikrāntam" [kālakriyāī, 18] iti pratimāṇḍalabhūvivaram koṭyām prathamacaturthayoh padayoh prakṣipate, dvitīyatṛṭīyayoh apanīyate |

etat pratipādanārtham samāyāmavānau vṛttakendram nidhāya yāvat tāvat pramāṇaparikalpitavyāsārdhapramāṇena karkaṭakena vṛttam ālikhet | tasya vṛttasya pūrvāpara[dakṣiṇottara]lekhā kṛtvā [tadvṛttakendrāt antya]phala[jyā]pramāṇam [sūtram mandoccābhīmukham] dakṣiṇena nidhāya tatra kakṣyāmaṇḍalavyāsārdhatulyakarkaṭakena vṛttam ālikhet | tat pratimāṇḍalam iti ucyate | [tat prathamacaturthapadayoh] kakṣyāmaṇḍalāt upari avatiṣṭhate, dvitīyatṛṭīyayoh

adhaḥ | tatra yā kotijyā sā kakṣyāmaṇḍalotpannā
kakṣyāmaṇḍalabhuṃyantarālapramāṇā | tena pratimaṇḍalabhuṃvivarāntarālamātreṇa
pratimaṇḍalam prathamacaturthayoh padayoh koṭih na prāpnoti iti prakṣipate,
dvitīyatṛtīyapadayoh tāvatā atītāt pratimaṇḍalāt koṭih iti apanīyate | evam
pratimaṇḍalotpannā koṭih bhavati | atha yadi koṭijyātah] pratimaṇḍalabhuṃvivaram na
śudhyati, tadā pratimaṇḍalabhuṃvivarāt kotijyā śodhyate | tāvatī pratimaṇḍalakoṭih
bhavati
| tatra evam niśpannāyāḥ koṭeh bhujajyāyāḥ ca vargasamāsamūlam karṇaḥ | tat
sūkṣmārthibhiḥ aviśiṣyate, pratimaṇḍalakarṇasya vṛddhihrāsavaśāt dṛṣṭih bhidyate iti |
tat yadi vyāsārdhatulyena pratimaṇḍalakarṇena yathā uktam pratimaṇḍalabhuṃvivaram
labhyate tadā tena pratimaṇḍalakarṇena kim iti | labdham pūrvakotijyāyām prakṣipate
apanīyate vā | tataḥ tadbhujajyāvarga[samāsa]mūlam karṇaḥ | tena punar
pratimaṇḍalabhuṃvivarānayanam iti yāvat aviśeṣaḥ | tataḥ
aviśiṣṭakarṇena vyastatrairāśikam kriyate ā yadi vyāsārdhavīṣkambhasya
kakṣyāmaṇḍalasya iyam bhujajyā labhyate, tadā tena karṇena pratimaṇḍalajena kā iti |
vyastatrairāśikatvāt vyāsārdham guṇakāraḥ, karṇaḥ bhāgahāraḥ, labdham
pratimaṇḍalabhuṃjyā | tat kāṣṭham māndocce prakṣipya sphuṭaḥ grahaḥ bhavati, yasya
māndoccakendram prathamapade | dvitīyapade ṣaḍbhyaḥ rāśibhyaḥ viśodhya bhujā
grīhītā iti ṣaṇbhyaḥ apanīyate, śeṣam māndocce prakṣipate |
tṛtīyapade cakrārdhādhikabhuṃjā iti tat cāpam cakrārdhasahitam māndocce prakṣipate |
caturthapade dvādaśebhyaḥ viśuddhaśeṣam bhujā iti cakrāt tat kāṣṭham viśodhya
śeṣam māndocce prakṣipate | evam sphuṭagrahaḥ bhavati, yasya śīghroccam na
vidyate |

yeṣām punar śīghroccam vidyate teṣām karmaviśeṣaḥ ucyate | tat yathā ā
paridhicālānāprayogeṇa sphuṭīkṛtāparidhinā vyāsārdham samguṇayya aśītyā
bhāgalabdham pratimaṇḍalabhuṃvivaram mandaśīghroccayoh | tena

anantarābhīhitamandoccakarmanā mandocca[phalam] sādhayet | [tat] sakalasamṣkṛtaḥ
grahaḥ bhavati | tat evam niṣpannasya, madhyamasya grahasya [ca] yat antarārdham
tat madhyamāt mandoccasiddhe adhike madhyamagrahe dhanam, ūne ḥnam
| evam mandoccasam[skaraṇam] | etat eva karma "śanigurukujeṣu mande ardham
ṛṇadhanam bhavati pūrvam" [kālakriyāí, 22] iti anena granthena abhidhīyate | katham?
sanigurukujeṣu, mandāraguruṣu madhyameṣu madhyamakarmanā siddheṣu
mandāraguruṣu iti arthaḥ | "ardham ḥṇadhanam bhavati pūrvam" [kālakriyāí, 22] iti
kasya ardham ḥnam dhanam vā bhavati iti atra sampradāyāvicchedāt
mandasiddhamadhyamāntaram parigṛhyate | kim tasya ardham madhye grahe
dhanam ḥnam vā pūrvasiddhe mandoccakarmanī bhavati? idam ca karma
mandoccaśīghroccayoh sāmānyena prasiddham | kutah? viśeṣānuvādanā[bhāvā]t | tat
yathā ā evam ardhena phalena saṃskṛtam madhyamam graham śīghroccāt grahāt
viśodhayet | tatra kendrapadavibhāgena bhujākotijye gṛhītvā
sphuṭīkṛtasvaśīghroccaparidhinā vyāsārdham samguṇayya aśītyā
bhāgalabdhapratimandalabhuvinvareṇa pūrvakarmanā eva saṃskṛtāt karṇam ānayet |
atra aviśeṣābhāvāt
aviśeṣakarma na pravartate | tataḥ bhujajyayā vyāsārdham samguṇayya karṇena
bhāgalabdhasya kāṣṭham śīghroccakendre prathamapade śīghroccāt apanīyate, dviṭīye
pade ṣaḍbhyāḥ viśodhya śeṣam śīghroccāt apanīyate | tṛṭīye pade cakrārdhayuktam,
caturthe pade dvādaśabhyāḥ viśuddhaśeṣam, "śīghrāt pratilomagāni vṛttāni" iti vacanāt |
evam śīghroccasakalaphalasamṣkṛtaḥ grahaḥ bhavati | tasya mandoccasiddhasya ca
pūrvavat eva antarārdham mandoccasiddhe pūrvakalpanayā
eva dhanam ḥnam vā kuryāt | tat mandaśīghra[siddha]m avinaṣṭam vidhāya tasmāt
mandoccam viśodhya pūrvavat eva mandoccam sādhayet | tasya mandoccasiddhasya
dvisaṃskṛtasya avinaṣṭasthāpitasya ca yaḥ viśeṣaḥ tam sakalam eva
dvisaṃskṛtahīnamadhyamāt viśodhayet, adhikamadhyame prakṣipet | [arthāt
dvisaṃskṛtamandasiddhe ūne sati viśodhayet anyathā prakṣipet] | tam evaṃkṛtam

śīghroccāt viśodhya śīghroccaprasiddhakarmanā saṃsiddhah sphaṭah grahah
bhaviṣyati

iti | etat eva karma saṃkṣepeṇa asmābhiḥ karmanibandhe uktam ā

pratimaṇḍalakarma api yojyam atra vipaśicitā |
mandocce pūrvavat kuryāt śīghroccāt tat viśodhyate ||
tat eva kevalam śodhyam [cakrārdhāt śodhyat calāt] |
cakrārdhasamāyutam cāpam cakrāt śuddham ca śesayoh ||
sphaṭavṛttagunām triyām bhaktvā aśītyā svakotitah |
tyaktvā padeṣu yuktvā vā karṇah prāgvat prasādhyate |
mandoccasiddhatanmadhyaviśeṣārdhasamanvitah |
mandasiddhe adhike hīne rahitah madhyamaḥ grahah ||
sa śīghroccāt punar sādhyah siddhayoh antarālajam |
ardhīkṛtya sakṛt siddhe pūrvavat parikalpayet ||
evamkṛtasya bhūyah api mandasiddhim samācaren |
mandasiddhasya tasya ayam viśeṣah yaḥ abhidhāsyate ||
dvīsiddhamandasiddhasya dvīsiddhasya yat antaram |
prāgvat tat madhyame kṛtvā śīghrasiddhah sphaṭah grahah ||
[mahābhāskarīyam, 4.45-51]

atra śanigurukujagrahaṇam śīghroccavat grahapratipādanārtham | tena budhaśukrayoh
api idam karma kriyate |

kakṣyāmaṇḍalalagnasvavṛttamadhye | kakṣyāmaṇḍale lagnam kakṣyāmaṇḍalalagnam |
kim tat? svavṛttamadhyam, svavṛttamaṇḍalamadhyam | kakṣyāmaṇḍalalagnam ca tat
svavṛttamadhyam ca kakṣyāmaṇḍalalagnasvavṛttamadhyam | tasmin
kakṣyāmaṇḍalalagnasvavṛttamadhye | grahah madhyah | yaḥ asau madhyah grahah sa

kakṣyāmaṇḍalalagnasavṛttamadhye bhavati | etat uktam bhavati ā
kakṣyāpratimaṇḍalayoḥ yatra sampātaḥ tatra yaḥ asau madhyamagrahaḥ,
sa eva sphuṭaḥ iti |

[grahasphuṭikaraṇe anyeśām matapradarśanam]

atha anye anyathā vyākhyānam kurvanti | anulomam gacchanti iti anulomagāni | kāni? vṛttāni, paridhayah iti arthah | mandāt | mandoccāt prabhṛti yāni mandoccavṛttāni mandoccāt ārabhya anulomam gacchanti, yasmāt mandoccakendram ahar ahar upacīyate | śīghrāt pratigomagāni | śīghrāt śīghroccāt ārabhya yāni śīghroccavṛttāni tāni pratigomam gacchanti, yasmāt śīghroccakendram ahar ahar apacīyate | atra idam praṣṭavyam ā katham vā mandoccakendram
ahar ahar upacīyate, katham vā śīghroccakendram ahar ahar apacīyate iti? ucyate ā grahāt patite mandocce [mandakendra]bhuktayah upacīyante, grahāt patite śīghrocce śīghrakendrabhuktayah apacīyante | yadi evam grahāt śīghroccam na patati mahattvāt tarhi maṇḍalam prakṣipyā pātyate iti | tatra bhagaṇāḥ bhagaṇebhyah viśodhyāḥ, rāśayah rāśibhyah, bhāgāḥ bhāgebhyah, liptāḥ liptābhyah iti eṣaḥ kramah | tatra grahabhagaṇebhyah śīghroccabhaṇāḥ eva tāvat na śuddhyanti | kutaḥ asau bhagaṇāḥ yam prakṣipyā śīghroccam viśodhyate? tasmāt gaṇitayuktyā yāni api śīghravṛttāni tāni api anulomagāni eva | ācāryeṇa tu karaṇalāghavārtham "pratigomagāni vṛttāni" iti uktam | kim punar atra karaṇalāghavam? kāmacāraḥ | yadi grahaḥ śīghroccāt patati tadā grahaḥ śīghroccāt viśodhyate | yadā ca śīghroccam grahāt patati tadā grahāt śīghroccam viśodhyate iti | satyam eva etat, kintu jyāparidhikalpanā vyabhicarati | yadā grahāt śīghroccam viśodhitam bhavati tadā anyathā jyā anyathā paridhiḥ, tadānīm eva śīghroccāt viśuddhe grahe anyathā jyā anyathā eva paridhiḥ | atha manyate śīghroccaviśuddhe grahe yat prathamapadam tat caturthapadam, yat dvitīyapadam tat tṛtīyapadam, yat tṛtīyapadam

tat dvitīyapadam, yat caturthapadam tat prathamapadam iti | evam tarhi yat jyāyasi
kalpanā, tasmāt mandoccam grahāt viśodhyam | grahaḥ ca śīghroccāt |
mandaśīghravṛttāni kramotkramena eva gacchanti |
kakṣyāmaṇḍalalagnah | kakṣyāyāḥ maṇḍalam kakṣyāmaṇḍalam | athavā kakṣyā ca sā
maṇḍalam ca tat kakṣyāmaṇḍalam | tena kakṣyāmaṇḍalena lagnah
kakṣyāmaṇḍalalagnah | kah? grahaḥ madhyah | svavṛttamadhye | svasya vṛttam
svavṛttam | tat ca sāmānyena mandavṛttam śīghravṛttam ca parigrhyate | tasya
svamandavṛttasya [svaśīghra]vṛttasya ca madhyam svavṛttamadhyam | tatra grahasya
madhyah, sa ca kakṣyāmaṇḍalāsaktah | svavṛttasya kakṣyāmaṇḍale
yathā madhyam bhavati tathā badhnīyāt | tasmin svavṛtte yathā kakṣyāmaṇḍale yathā
madhyam bhavati tathā badhnīyāt | tasmin svavṛtte yathā kakṣyāmaṇḍale jyā avitishthate
tathā eva avatishthamānā draṣṭavyā | katham? yathā kakṣyāmaṇḍalasya
śaṇṇavatyamśakā kāṣṭhajyā | evam atra api śaṇṇavatyamśakā kāṣṭhajyā parikalpanīyā |
tat yathā ā uccāt ārabhya bhujajyākoṭijyābhyaṁ traīrāśikam ā yadi
śaṣṭiśatratrayaparidhau ime bhujajyākoṭijye, [tadā] uccanīcaparidhau
ke iti | athavā ā vyāsārdhena ime bhujajyākoṭijye, tataḥ antyaphalatulyena
uccanīcavṛttavyāsārdhena ke iti | labdhe uccanīcavṛttasya bhujajyākoṭijye | tatra
prathamacaturthayoh padayoh vyāsārdhāt upari koṭisādhanam sthitam iti vyāsārdhe
prakṣipyate | dvitīyatṛtīyayoh padayoh vyāsārdhonam pravṛttam iti vyāsārdhāt apanīyate
| evam koṭikā niśpannā bhavati, bhujākoṭivargasamāsamūlam karṇah | evam
mandaśīghrayoh karṇotpattiḥ || 21 ||

[nīcoccavṛttavidhinā śanigurukujasphuṭikaraṇam]

grahāṇām ḥnadhanapratipādanāya āha ā

ksayadhanadhanakṣayāḥ syuḥ mandoccāt vyatyayena śīghroccāt |

śanigurukujeṣu mandāt ardham ḥnam dhanam bhavati pūrve || 22 ||

ksayadhanadhanakṣayāḥ | kṣayah ca dhanah ca dhanah ca kṣayah ca
ksayadhanadhanakṣayāḥ | ete kṣayadhanadhanakṣayāḥ yathāsaṅkhyena padeṣu
pratyetavyāḥ | tat yathā ā prathame pade kṣayah, dvitīye pade dhanam, tritīye pade
dhanam eva, caturthe pade kṣayah iti | ayam kṣayādikramah |

padakramah ca kasmāt parigrhyate iti āha ā mandoccāt pravṛttāt grahāt | kutah? ucyate
ā "mandoccāt" iyam pañcamī maryādābhidhāyinī | tataḥ mandoccāt iti anena mandoccāt
pravṛttāḥ grahāḥ parigrhyate | sa katham mandoccāt pravṛttāḥ grahāḥ jñeyah? ucyate ā
na atra kiñcit api jñeyam | yāvadbhiḥ mandoccāt adhikāḥ grahāḥ tavatā asau
mandoccāt pravṛttāḥ grahāḥ jñeyah | tena tatparijñānārtham mandoccām grahāt
pātyate, tatra śeṣeṇa rāsyādinā mandoccāt
pravṛttāḥ asau grahāḥ bhavati | tasmāt prathamapade yā kramajyā tasyāḥ phalam
trairāśikena ānīyate | yadi ṣaṣṭiśatratrayaparidheḥ iyam jyā, tadā iṣṭagrahāparidheḥ kā iti
phalam labhyate | etat eva trairāśikam | jhārdhāpavartamānaṣaṣṭiśatratrayaparidheḥ
aśītih, svaparidhibhāgānām yathā uktākṣarasaṅkhyā | tena paridhīnā guṇitajyāyāḥ aśītih
bhāgahārah | svaparidhyakṣarasaṅkhyā guṇakārah | labdham phalam ḥnam eva |
dvitīyapade utkrameṇa jyā vyavasthitā iti,
utkramajyāphalam dhanam | punar tritīyapade krameṇa jyā vyavasthitā iti
kramajyāphalam dhanam | caturthe pade utkrameṇa jyā vyavasthitā iti
utkramajyāphalam kṣayah | tatra prathamapade eva mandakendram, tat utpannam eva
phalam grahamadhye kṣayah | yadā dvitīyapade kendram tadā
prathamapadavyāsārdhajyotpannam aśeṣaphalam kṣayah,
dvitīyapadotkramajyāphalam dhanam | prathamadvitīyapadābhyaṁ tritīyacaturthapade
vyākhyāte |

athavā karaṇalāghavārtham evam kriyate ā prathamapade yat utpannam krameṇa
jyāphalam kṣayah | dvitīyapade yat utpannam punar yat gatam rāsyādikam atītam
prathamapadasaṃjñitarāśitrayāt kṣayātmakāt dhanātmakam tat dvitīyapadasya yat
gatam tat viśodhya śesam tatra kṣayah eva avatiṣṭhate, tena tat utpannam phalam
madhyamagrahe kṣayah | evam dvitīyapadānte kṣayadhanayoh tulyatvāt na kiñcit
avatiṣṭhate | tasmāt sāmarthyataḥ ayam arthaḥ
saṃjātah ā prathamapade gatajyāphalam kṣayah, dvitīyapade api āgatajyāphalam
kṣayah | etena mandakendraphalam meṣādike kṣayah | tat etat prathamapade gatam
bhujāsaṃjñitam dvitīyapade anāgatam | koṭisamjñitam [prathamapade anāgatam]
dvitīyapade gatam | tṛtīyacaturthayoh ca | tṛtīyapade kramajyāphalam dhanam |
caturthapade tṛtīyapadarāśitrayāt dhanāt dhanasaṃjñitāt
caturthapadarāsyādikataksayasaṃjñitam viśodhyate, śesam dhanam eva avatiṣṭhate |
evam
caturthapadānte dhanakṣayayoh tulyatvāt na kiñcit avaśisyate | tasmāt atra api sa eva
arthaḥ tulādikendre bhujāphalam dhanam iti |

suṣṭhu khalu etat avagamyate | yadi padeṣu sarveṣu tulyāḥ paridhayaḥ tadā evam syāt
| na ca tulyāḥ paridhayaḥ paṭhyante | atulyeṣu ca paridhiṣu pratimaṇḍalasya ca api
avasthā virudhyate | kutah? prathamapade śukrasya catuṣkāḥ paridhiḥ | tatra
dvitīyapadaprāptau eva dvikāḥ paridhiḥ | tatra ardhaṭaphalam parihiyate | grahaḥ tu
gacchan krameṇa gacchati, na hariṇaplutena | na eṣa doṣaḥ | tulyāḥ paridhayaḥ | nanu
ca uktam ā na ca tulyāḥ paridhayaḥ paṭhyante
iti | na etat asti | evam vijñāyate ā ete paridhayaḥ upacayā[pacayā]tmakāḥ, yataḥ tena
tulyopacayāpacayātmakatvāt kramotkramavyavasthāyāḥ, yataḥ te eva bhavanti iti | tena
tulyāḥ ucyante | tat yathā ā prathamapade kramajyām paridhyantareṇa hatvā
vyāsārdhena labdham ūne viṣamapadaparidhau prakṣipyate, adhike apanīyate |
prathamadvitīyapadābhyām tṛtīyacaturthapade vyākhyāte |

vyatyayena śīghroccāt | śīghroccakendrāt padavaśāt kramotkramajyāphalam viparītam | prathamacaturthayoh padayoh dhanam, dvitīyatṛtiyayoh kṣayah iti viparyayah | athavā bhujāphalam śīghrakramena ānītam meṣādau dhanam, tulādāvṛṇam | paridhicālanādyašeṣam pūrvavat eva | atra śīghraphalam vyāsārdhena samguṇayya tat utpannakrarṇena bhāgalabdham phalam dhanam ṛṇam vā | etat ca karma trairāśikam ā yadi vyāsārdhamaṇḍale idam phalam labhyate, tadā śīghroccakarṇamandale kiyat iti vyastatrairāśikena vyāsārdham guṇakārah, karṇah bhāgahārah | atra kim iti vyastatrairāśikam? ucyate ā "alpe hi manḍale alpāḥ mahati mahāntah ca rāśayah jñeyāḥ" [kālakriyā, 14] iti anena | atha mandoccaphalam evam kasmāt na kriyate? ucyate ā kriyamāṇe api tāvat eva tat phalam bhavati iti na kriyate | kutah? mandoccakarṇah aviśisyate | tatra ca aviśeṣitena phalena vyāsārdham samguṇayya karṇena bhāge hṛte pūrvam ānītam eva phalam bhavati iti | atha kim iti śīghroccakarṇah na aviśisyate? abhāvāt aviśeṣakarmaṇah |

atha atra idam praṣṭavyam ā kakṣyāmaṇḍalasya yathā svayojanakarṇah vyāsārdhah, tat ca svaliptābhiḥ mīyamānaḥ vasvagnivedarāmāḥ [3438], pratimaṇḍalasya api etat eva vyāsārdham iti etat | kakṣyāmaṇḍalotpannajyāphalaliptābhiḥ trairāśikābhāvah, kakṣyāpratimaṇḍalayoh tulyavyāsārdhatvāt | atha manyate ā tatkālotpannabhujākoṭiniṣpannakarṇah vyāsārdham pratimaṇḍalasya | tena trairāśikopapattih | evam tarhi na kakṣyāmaṇḍalatulyam pratimaṇḍalam iti | atra ucyate ā caturthapadādau kakṣyāpratimaṇḍale tulye | tena kakṣyāpratimaṇḍalayoh tulyam vyāsārdham | tataḥ prabhṛti pratimaṇḍalavyāsārdham [kramena upacīyate] | evam kramena upacīyamānam uccatulyagrahe svoccavṛttavīśkambhārdham upacitam bhavati | tat eva prathamapadādau prabhṛti utkramena apacīyamānam prathamapadānte vyāsārdham eva bhavati | evam kramena

apacīyamānam dvitīyapadānte uccavṛttavīśkambhārdham apacitam bhavati | tṛtīye
[padānte] ca utkrameṇa upacīyamānam iti etat kakṣyāmaṇḍalavyāsārdham eva |
grahasya uccanīcagatikramāt upacayāpacayātmakam bhavati iti ataḥ pratimaṇḍalasya
upadeśah | ghanabhūmadhyāt eva grahasya uccanīcaparijñānam iti ataḥ vyāsārdham
eva koṭiphalena upacīyate apacīyate vā | atha yadi pratimaṇḍalamadhyāt vyāsārdhasya
vṛddhihrāsau syātām | tadā tṛtīyam maṇḍalam parikalpayitavyam syāt |
ghanabhūmadhyāt karṇasya upacayāpacayau, tena tatkarṇena
vyastatrirāśikopapattih iti | etat gaṇitanyāyasiddham eva |

śanigurukujeṣu | śaniḥ ca guruḥ ca kujah ca śanigurukujāḥ | ataḥ teṣu śanigurukujeṣu
mandāt mandoccāt prabhṛti ya[t phalam upapadyate] tat ardhām ḥnam dhanam vā
bhavati | pūrve pūrvakarmaṇi, mandāt prabhṛti iti | śīghrāt api ca yat phalam tat teṣu
ardham kriyate prathame śīghrakarmaṇi | anyatra dvitīyakarmaṇi mandaśīghrayoh
sakalaphalam iti arthāt avasīyate | mandaśīghraphalāni kāṣṭhāni ḥnam dhanam vā
parikalpyate | yataḥ kāṣṭhena grahah
bhramati | tat phalam kva ḥnam kva vā dhanam iti ā śanigurukujeṣu | atra śanigurukujāḥ
madhyamāḥ eva parigṛhyante | kutah? madhyamasya sphuṭikaranopāyatvāt | tadā hi
ete sphuṭibhavanti |

yadi etat karma śanigurukujeṣu madhyameṣu kriyate, mandoccaphalārdhena
madhyame ḥnadhanē kṛte tasya ḥnadhanīkṛtasya madhyamatvam hīyate | [ataḥ]
śīghroccaphalacāpārdhasya avikṛtamadhyame dhanarne prāpnutah J| na etat asti |
mandoccaphalacāpārdhadhanarṇīkṛtah eva bhaviṣyati | kutah? "ekadeśavikṛtam
ananyavat bhavati" iti [aṣṭādhyāyī, 4.1.83 pātañjalamahābhāṣyam] ekadeśavikṛtah api
madhyah eva | yathā devakattah svalaṅkṛtah api svam ākhyānam
na jahāti, na ca karṇānāśāvacchedena api, evam atra api, dve karmaṇī tatra tatra eva
madhyame kriyete | athavā prathamamadhyamāt mandoccāyātām phalārdham

madhyamotpannatvāt madhyame kriyate | yat punar sīghroccāyātām sakṛtsaṃskṛtāt
phalārdham tat sakṛtsaṃskṛtāyātām eva iti kṛtvā sakṛtsaṃskṛtah eva kriyate | tasmāt
dvikarmasāṃsiddhāt mandoccaphalam tat sakalam eva madhyame grahe kriyate | sa
sphuṭamadhyamah bhavati |

atha idam praṣṭavyam ā yat etat dvikarmasiddhamandoccāyātām tat
dvikarmasāṃsiddhe eva kasmāt na kriyate | ucyate ā " mandoccāt sphuṭamadhyāh"
[kālakriyāi, 23] iti madhyame kriyate | nanu ca dvikarmasiddhāh api madhyamah eva |
kutah? "ekadeśavikṛtam ananyavat bhavati" iti vacanāt | evam tarhi siddhe, punar
sphuṭamadhyamagrahaṇam kurvan ācāryah jñāpayati avikṛtamadhyah iti | anyathā hi
sphuṭamadhyamagrahaṇam atiricyate | tasmāt dvitīyaphalam
mandoccāyātām tat sakalam eva madhyame grahe kriyate |

sīghroccāt ca sphuṭāh jñeyāh iti | sa evaṃkṛte sphuṭamadhyamah sīghroccakarmaṇā
sphuṭāh bhavati iti sphuṭamadhyame sīghroccaphaladhanuḥ sakalam kriyate, sphuṭāh
bhavati |

rñadhanayuktipradarśanārtham vyāsārdhatulyena karkaṭakena samāyāmavanau
samavṛttamaṇḍalam ālikhya mātrpitṛrehkām kuryāt | tat kakṣyāmaṇḍalam
rāśijyārehkāviracitam | tanmaṇḍalakendrāt yāvatyah abhīṣṭagrahāntyaphalaliptāh tāvati
antare ca dakṣiṇena kendram kṛtvā vyāsārdhatulyena eva karkaṭakena tathā eva
samavṛttamaṇḍalam ālikhet | tat pratimaṇḍalam | [kakṣyā]maṇḍalāt yāvadbhiḥ
pratimaṇḍalam niṣkrāntam tāvatā vyāsārdhena
kakṣyāmaṇḍaladakṣiṇottararekhāsampāte kendram kṛtvā ubhayatra vṛttadvayam
ālikhya[te | te nīcocca]vṛtte | tayoh yathā kakṣyāmaṇḍale rāśijyāvikalpah tathā
karaṇīyam | prathamacaturthayoh padayoh kakṣyāmaṇḍalāt uparisthitatvāt
pratimaṇḍalasya vyāsārdhe koṭisādhanam prakṣipya karṇah kṛtah, tāvat pramāṇam

sūtram [pratimāṇḍalaparidhim] yatra spr̄ṣati tatra sthāne sphuṭah grahah |
kakṣyāmaṇḍalajyā ca tasmāt purataḥ iti arthaḥ | prathamacaturthayoh padayoh
tat utpannam phalam madhyamagrahāt apacīyate | dvitīyatṛṭīyayoh padayoh
kakṣyāmaṇḍalāt adhovyavasthitatvāt pratimāṇḍalasya, vyāsārdhāt koṭisādhanam
apanīya kṛtaḥ karṇaḥ, tāvatpramāṇam sūtram kakṣyāmaṇḍalamadhyāt
pratimāṇḍalaparidhim yatra spr̄ṣati tatra sphuṭah grahah | sa ca
kakṣyāmaṇḍalajyāpradeśāt purataḥ avatiṣṭhate | tena tat utpannam phalam
dvitīyatṛṭīyayoh padayoh madhyamagrahāt upacīyate |

śīghrocce punar yesām kṣayadhanadhanakṣayāḥ syuḥ mandoccāt evam eva śīghroccāt
iti ayam pāṭhaḥ teṣām iyam ḥadhanopapattih | yesām punar vyatyayena śīghroccāt iti
ayam pāṭhaḥ teṣām iyam eva upapattih viparītā | katham? pratimāṇdale sphuṭah ca
grahah, madhyamaḥ ca śīghroccaparikalpanāya kakṣyāmaṇḍale | punar kendrajyā tena
prathamacaturthayoh padayoh pṛṣṭhataḥ sthitatvāt madhyamasya kendrajyāgrahasya
ānīyamānasya kendrajyotpannam
phalam dhanam bhavati puraḥsthitatvāt kendrajyāgrahasya, dvitīyatṛṭīyayoh padayoh
pṛṣṭhataḥ sthitatvāt kendrajyāgrahasya tat phalam apanīyate | atah evam
mandaśīghrayoh paraspaviruddhatvāt upapatteḥ, ācāryena
paramārtha sphuṭagrahāpradeśah bhūtārāgrahavivarapramāṇapradeśah darśitah | tena
yāvat bhūtārāgrahavivarapramāṇam sūtram kakṣyāmaṇḍalamadhyāt
pratimāṇḍalaparidhim padavibhāgena prasāritam yatra spr̄ṣati, tatra sphuṭah grahah |

anye punar anyathā pāṭhanti ā śanigurukujeṣu mande ardham ḥam dhanam bhavati
pūrvam iti | mande mandocce ardham phalasya ḥam dhanam, yadi tat grahe ḥam
dhanam tadā tat mandocce dhanam ḥam iti arthāt avasīyate | tatra kiyat tat phalam
mandocce ḥam sat dhanam bhavati, dhanam sat ḥam bhavati iti ucyate ā
śīghroccaphalam yasmāt mandoccaphalam ca phaladvayam etat | tayoḥ mandoccam

ādhārah | phaladvayam ādheyah | atah śīghroccaphalam
kriyate | karmacatusṭayagrahaṇāt tat utpannam ca phalam tatra eva | tat yathā ā prāg
eva śīghraphalam āniya tat ardham ḥnam dhanam vā mandocce kṛtvā tat mandāyātam
ca tena phaladvayasaṃskṛtena mandoccena saṃskṛtaḥ sa sphuṭamadhyah grahaḥ
bhavati | sa śīghrakarmanā sphuṭaḥ iti prakriyāntaram etat || 22 ||

[prakārāntareṇa śanigurukujasphuṭikaraṇam]

grahāṇām sphuṭikaraṇaprapakārāntaram āha ā

mandoccāt śīghroccāt ardham ḥnam dhanam graheṣu mandeṣu |
mandoccāt sphuṭamadhyāḥ śīghroccāt ca sphuṭāḥ jñeyāḥ || 23 ||

mandoccāt yat phalam āyātam tasya cāpārdham ḥnam dhanam vā graheṣu ḥnam
dhanam [mandeṣu vā kartavyam] | evam tarhi cakāraḥ kartavyaḥ | cakāreṇa vinā
graheṣu mandeṣu ca iti cārthaḥ na labhyate | na cakāraḥ kartavyaḥ | antareṇa api
cakāram cārthaḥ avagamyate | [katham?] evam ā

bāle vṛddhe kṣate kṣīṇe kṣīram yuktyā prayojayet |

iti atra cakāreṇa vinā cārthasya avagamanāt | evam ayam api | "sva"mandeṣu api
vaktavyam, yena sveṣu madhyameṣu sveṣu ca mandeṣu kriyate | "sva"śabdaḥ api na
kartavyaḥ | svasya grahasya yaḥ madhyamaḥ svasya ca yat mandam tatra eva
karmasiddheḥ | yathā "mātari vaktavyam pitari śuśrūṣitavyam" iti | na ca tatra ucyate ā
"svasyām mātari svasmin vā pitari" iti | evam atra api iti |

atha yat etat mandoccāyātam phalārdham tat kṣayadhanakramena madhye grahe

dhanam ḥnam vā kriyate | mande punar katham kriyate, mandasya ḥnadhanakramasya
anabhidhānāt? ucyate ā mandoccam sarvadā eva grahasya ḥnabhūtam | tatra yat
grahasya ḥnam tat mandocce prakṣipyate, ḥnabhūtatvāt | yat grahe dhanabhūtam tat
mandoccāt apanīyate, mandoccasya ḥnabhūtatvāt eva | ayam ca gaṇitanyāyah ā

ṛna[ṛnayoh dhana]dhanayoh saṃkṣepah ḥnadhanayoh ca viśeṣah |

iti | tasmāt anena krameṇa mandocce phalārdhasya upacayāpacayau bhavataḥ |
śīghroccāt ca yat phalārdham tat api evam eva grahavaiparītyena mande dhanam ḥnam
vā kriyate | graheṣu punar prayojanābhāvāt na kriyate |

mandoccāt | mandoccaśīghroccaphalārdhena saṃskṛtam mandoccam parigṛhyate |
kutah? karmadvayavṛttau mandanirdeśāt | tena tādṛgvidhena mandena madhyamāt
viśodhitena yat phalam āyātam tat sakalam madhyeṣu ḥnam dhanam vā kriyate |
sphuṭamadhyāḥ | [madhyamasya] sphuṭasya antarvartitvāt [sphuṭāḥ ye na, na avikṛteṣu]
madhyameṣu phalasya karaṇāt madhyamāḥ | athavā sphuṭasya madhyamāḥ
sphuṭamadhyamāḥ | ekena karmanā niṣpannā yena
dvitīyam karmāntaram apekṣante | śīghroccāt ca sphuṭāḥ jñeyāḥ | śīghroccāt āyātam
phalam tena saṃskṛtāḥ sphuṭāḥ | cakārah phalayoh samuccayam abhidhatte | jñeyāḥ
avagantavyāḥ boddhavyāḥ iti yāvat || 23 ||

[bhṛgubudhayoh sphuṭikaraṇam]

bhṛgubudhayoh karma āha ā

śīghroccāt ardhonam kartavyam ḥnam dhanam svamandocce |
sphuṭamadhyau tu bhṛgubudhau siddhāt mandāt sphuṭau bhavataḥ || 24 ||

śīghroccāt iti prāk śīghroccaniśpannam phalam grhyate | tat eva śīghroccaphalam agre | tatra tat ardhonam ardham iti arthah | ḥnādhanam kartavyam | yadi grahe ḥnam tadā dhanam kartavyam | dhanasya ḥnam kartavyam iti arthāt avasīyate | kva iti āha ā svamandocce | svakīyam mandoccam svamandoccam, tasmin svamandocce | sphuṭamadhyau bhrgubudhau bhavataḥ | katham? siddhāt mandāt | yat eva śīghroccaphalārdhena saṃskṛtam mandoccam tat siddham iti abhidhīyate | tasmāt siddhāt mandāt sphuṭamadhyau bhavataḥ | etat uktam bhavati ā yat eta[t siddhamandam tat madhyama]grahāt viśodhya śeṣaphalasya ca ḥnādhanena tayoḥ bhrgubudhayoḥ madhyau sphuṭamadhyau bhavataḥ | "tu"-śabdāt "śīghroccāt ca sphuṭāḥ jñeyāḥ" [kālakriyāí, 23] iti etat kriyate || 24 ||

[bhūtārāgrahāntarālam]

[bhūtārāgrahā]ntarālapramāṇānayanāya āha ā

bhūtārāgrahavivaram vyāsārdhahṛtaḥ svakarṇasamvargah |
kakṣyāyām grahavegaḥ yaḥ bhavati sa mandanīcocce || 25 ||

tārāgrahāṇām bhuvah ca yat antaram tasya ānayanopāyah ucyate |
bhūtārāgrahavivaram bhuvah tārāgrahasya ca yat antaram tat bhūtārāgrahavivaram bhavati iti vakṣyati | vyāsārdhahṛtaḥ svakarṇasamvargah | vyāsārdham triyā | triyayā hṛtaḥ vyāsārdhahṛtaḥ | svakarṇayoḥ saṃvargah svakarṇasamvargah | etat uktam bhavati ā mandoccakarṇasya śīghroccakarṇasya ca yaḥ ghātaḥ saḥ svakarṇasamvargah vyāsārdhahṛtaḥ | kakṣyāyām grahavegaḥ | tāvat ucchritāyām [kakṣyāyām] grahasya yaḥ mandaśīghroccaphalajanitaḥ vegaḥ sa tasya bhūtārāgrahavivarasya agre bhavati iti | ataḥ eva bhūtārāgrahavivaram vikṣepānayane

bhāgahārah |

apare āhuḥ ā na bhūtārāgrahavaram bhāgahārah | kah tarhi? vyāsārdham | yasmāt etat atra traīrāśikam ā yadi triyayā svagrahābhihitavikṣepah labhyate, anayā abhīṣṭagrahasvapātavivarāntarālāṁśajyayā bhujajayayā kim iti | na etat samyak avasīyate | yadi idam eva traīrāśikam syāt, tadā nakṣatratārāgrahaśāsiyogāḥ sarvadā tasyām eva diśi tulyavikṣepavivarāḥ syuḥ, nakṣatratārāṇām uccanīcagatyasambhavāt | dr̄syante ca amī grahanakṣatrāṇām dūrāsanna[vaśāt] bhedāṁśumardanasavyāpasavyayogagata[yaḥ | yadi vyāsārdha]m eva bhāgahārah syāt tadā sarve eva tulyagatayah syuḥ | bhūtārāgrahavaram | bhūtārāgrahavivaravaśāt vikṣepah alpaḥ mahān ca nakṣatratārāgrahayogesu labhyate | [alpe vā] mahadvikṣepe dakṣiṇottaradigvaśāt niyatavikṣepāntaradiśah yogāḥ upapadyante | tasmāt bhūtārāgrahavaram eva bhāgahārah | etat api karma traīrāśikadvayam | katham? yadi vyāsārdhatulyayā pātāntarabhujaḥ jayayā yathāsvam vikṣepah alpaḥ mahān ca labhyate, tadā ana[yā bhujā]jyayā pātāntarotpannayā kah iti vikṣepah labhyate | [ataḥ] punar api vyastatraīrāśikam ā yadi ayam vikṣepah kakṣyāmaṇḍale vyāsārdhaviṣkambhe labhyate, tadā paramārthapratimaṇḍale bhūtārāgrahavivaraviṣkambhārdhe kiyān iti | pūrvatraīrāśike vyāsārdham bhāgahārah āśīt, tat eva dvitīyatraīrāśike vyastatvāt gunakārah | ataḥ gunakārabhāgahārayoḥ naṣṭayoh, pātāntarabhujaḥ jayāḥ vikṣepah gunakārah, bhūtārāgrahavaram bhāgahārah, phalam iṣṭagrahasya vikṣepah | evam iṣṭagrahayoḥ vikṣepāvabhinnadikkau viśiṣyate, yasmāt apakramamaṇḍalāt tau pravṛttau | tataḥ tadviśeṣatulyam tayoḥ antaram bhavati, tatra api tayoḥ ūnādhikavikṣepavaśāt paraspārāpekṣayā [tayoḥ yāmyottaradiktvam] | bhinnadikkau vikṣepau yojyate | yasmāt ekaḥ apakramamaṇḍalāt dakṣiṇena aparaḥ uttareṇa, tasmāt tadantaram [vikṣepayoga]pramāṇam bhavati | vikṣepaliptāntaracaturbhāgah aṅgulapramāṇam

vācyam

| yadā punar antaraliptāḥ na syuḥ, alpāḥ vā [syuḥ] tadā tayoḥ anyonyāśeṣāt chādanam
ekadeśāt chādanam vā [bhavati] | tatra grahaṇavat
iṣṭagrahasamparkārdhatadvikṣepa[viśleṣeṇa yōgena vā] sthityardhanādīkānayanam |

[tārāgrahāṇām sphuṭayojanakarṇānayanam]

atha nakṣatratārāgrahayogeṣu natilambanaparijñānārtham idam karma kriyate |
"śāśiṇāñānanamāṁśakāḥ" [gītikāī, 7] iti atra śāsiyojanakarṇāḥ nādibhiḥ gunītaḥ
śukrādīnām bhāgahārāḥ bhavanti iti vyākhyātām | tena śāsiyojanakarṇāḥ pañcabhiḥ
gunītaḥ śukrasya yojanakarṇāḥ bhavati daśabhiḥ guroḥ, pañcadaśabhiḥ budhasya,
vimśatyā śaneḥ, pañcavimśatyā aṅgārakasya | yadi evam tarhi grahāṇām
kakṣyābhidhānam virudhyate | na eṣaḥ doṣaḥ | tāvat kakṣyāsthāḥ
eva grahāḥ, atra punar nādiguṇakāraḥ dṛṣṭiparikarma kriyate iti | ayam yojanakarṇāḥ
bhūtārāgrahavivaraguṇītaḥ vyāsārdhahṛtaḥ sphuṭaḥ bhavati | etat api traīrāśikam ā yadi
vyāsārdhaliptābhiḥ etāvanti yojanāni labhyante bhūtārāgrahavivaraliptābhiḥ kiyanti iti,
athavā traīrāśikadvayaikīkaraṇena abhiṣṭagrahasphuṭayojanakarṇāḥ ānīyate | katham?
bhūtārāgrahavivarānayane vyāsārdham bhāgahāraḥ āśīt, iha ca
bhūtārāgrahavivarasvamadhyamayojanakarṇābhyāsasya
vyāsārdham eva bhāgahāraḥ | ataḥ bhāgahārayoḥ samvargaḥ
mandoccaśīghroccakarṇasvamadhyamayojanakarṇābhyāsasya bhāgahāraḥ | phalam
sphuṭayojanakarṇāḥ | tayoḥ ayam arthaḥ sañjātaḥ ā mandaśīghra[karṇa]gunītaḥ
madhyamayojanakarṇāḥ vyāsārdhakṛtivibhaktaḥ sphuṭayojanakarṇāḥ bhavati |
mandanīcocce mandasya mandoccasya ucce nīce ca ānītaḥ mandakarṇāḥ eva anena
vidhinā sphuṭīkṛtaḥ iti |

[grahasphuṭīkaraṇe viśeṣaḥ]

atha vivasvaddhanarṇodayāstamayavaśāt sāmānyasarvagrahāṇām
sphuṭaganitavidhivišeṣah abhidhāsyate | tat yathā ā savituh bhujāphalena
ravyādibhuktayah gunitāḥ khakhaṣadghanena vibhajya āptakalā graheṣu
bhujāphaladhanarṇavaśāt kriyate | tat vicāryate ā idam karma anupadiṣṭam katham
avagamyate? na eṣah doṣah | upadiṣṭam eva etat ā "budhāhnyajārkodayāt ca
laṅkāyām" [gītikāī, 4] iti | arkodayāvadheḥ gateḥ eteṣām pratipacchedau iti upadeśāt
arkah hi sphuṭaganitāvagatagatēḥ eva udayaśikharamadhyāste iti sphuṭasya arkasya
udayaḥ parigṛhyate | sphuṭagatih ca madhyamā eva svabhujāphalādiliptābhiḥ
upacitāpacitā vā iti ataḥ bhujāphalaliptābhiḥ prāṇatulyābhiḥ trairāśikam kriyate ā yadi
ahorātraprāṇaiḥ khakhaṣadghanatulyaiḥ vivasvadādisphuṭabhuktayah labhyante,
bhujāphalaliptābhiḥ prāṇatulyābhiḥ kim iti | āsām bhujāphalaliptānām prāṇatulyatvam iti
| atra ucyate ā ravyudayāt eva jyotiścakrādeḥ api
udayādih iti vyākhyātām | tena pravahākṣepāt madhyamah sarvadā svabhujāphalena
adhikah ūnah vā bhavati | yadā adhikah tadā jyotiścakram bhujāphalaliptātulyam
ravigatyā jīyate, [ūnah cet bhujāphalaliptātulyam ravigatyā apacīyate] iti | anayā
parikalpanayā jyotiścakrasambandhinyah tadā bhujāphalaliptāḥ bhavanti,
jyotiścakraliptāḥ prāṇāḥ ca tulyāḥ iti | ataḥ tāsām prāṇatulyabhujaḥphalaliptānām
abhāvah, aharganātā āga]tah [sakalah sūryah] yadā svoccatulyah tadā
eva udaye bhavati iti | anyathā tatra api bhujāntaraphalam kriyate eva | arkah hi
sphuṭaganī[tāvagatēḥ eva udaya]śikharamadhyāste iti |

evam eteṣām vivasvadādīnām grahāṇām sphuṭagatayah sūryodayāvadheḥ bhavanti iti
ataḥ ravi[vaśāt eva upacayāpaca]yātmakam phalam kriyate | deśāntaracaradakarmaṇī
ca anayā eva upapattyā | ardharātrāstamayadinamadhyasamsthitasūryā[t trairāśikam] ā
yadi ṣaṣṭyā nādībhiḥ yathāsvam madhyamā bhuktih labhyate tadā pañcadaśabhiḥ
ghaṭikābhiḥ trimśatā pañcacatvārimśadbhiḥ ca kim iti [phalalī]ptāḥ audayikebhyah

grahebhyah viśodhyante, tataḥ tena
ravyādayaḥ tātkālikāḥ bhavanti | teśām ca sphuṭaprakriyā pūrvābhihitā eva |
[dinamadhyārdharātrayoḥ cara]dalakarma na pravartate | kṣitijamāṇḍalaprāptyatikrāntī
ravyudayāstamayayoḥ eva iti | evam ādityagatyavadvadhyah grahāḥ |

yadā punar para[sya grahasya raveḥ iva] kalpyante tadā candroda[yajñā]nena
udayakālam eva avagatya tadudayakālāvadvadhyah kriyante |

[tithipratipacchedaparijñānam]

evam yathopadiṣṭagaṇitaprakriya[yā tithi]pratipacchedaparijñānāya ucyate | tat yathā ā
sphuṭaśāśināḥ sphuṭaḥ raviḥ apanīyate, yasmāt tithiḥ śaśimāsavaśāt bhavati tena
"raviśāsiyogaḥ bhavanti [śaśimāsāḥ]" [kālakriyāí, 5] iti sphuṭavidho]rinaḥ apanīyate |
yathāsambhavam atra bhagaṇaḥ na sambhavati iti rāsyādayaḥ eva rāsyādibhyaḥ
apanīyante | athavā ka[lpāditaḥ ye ravighagaṇāḥ] bhuktāḥ te śaśibhagaṇebhyaḥ
viśodhyante, rāsyādibhyaḥ rāsyādayaḥ iti | tatra
avaśiṣṭāḥ śaśimāsādayaḥ bhavanti | [māśānām prayojanābhāvaḥ i]ti māśaḥ tyajyante |

tatra ye avaśiṣṭāḥ rāsyādayaḥ vartamānaśaśimāsasya avayavabhūtāḥ taiḥ liptīkṛtaḥ
trairāśi[kam ā yadi khakhaṣadghana]tulyena sūryācandramasoh višeṣeṇa śaśimāsāḥ
labhyate tadā ābhiḥ candrādityavišeṣaliptābhiḥ kiyacchaśimāś[āḥ iti sampūrṇa]māśam
na prayacchatīti divasāḥ kriyante | "trimśaddivasaḥ bhavet sa māśaḥ" [kālakriyāí, 1] iti
trimśatkaḥ guṇakāraḥ | tatra guṇakārabhāgahārayoḥ apavartane [trimśataḥ
trimśadbhāgena ekam] khakhaṣadghanasya
tāvadbhāgena saptaśatāni vimśatyadhikāni | saptaśatyā vimśatyuttarayā
ravīcandravivaraliptāḥ vibhajyante | [phalam gatātithayaḥ va]rtamānaśaśimāsasya
śuklapratipatpravṛttāḥ, tatra śeṣaliptāḥ vartamānatitheḥ bhuktāḥ, tadviśuddhāḥ

bhāgahāraliptāḥ bhojyāḥ iti | ataḥ tābhiḥ bhuktabhojyaliptābhiḥ traīrāśikam ā yadi tat
ahāḥ sūryācandramasoh sphaṭabhuktyantaraliptābhiḥ ekaḥ śāśidivasaḥ labhyate tataḥ
ābhiḥ bhuktabhojyaliptābhiḥ kiyān śāśidivasasya labhyate iti, tatra
divaseṣu bhāgam na prayacchanti iti nāḍyah kriyante | "śaṣṭih nāḍyah divasaḥ"
[kālakriyāī, 1] iti śaṣṭyā saṅguṇayya sphaṭabhuktyantaraliptābhiḥ bhāgalabdhāḥ
bhuktabhojyāḥ titheḥ nāḍyah sūryodayāvadheḥ gatāḥ gantavyāḥ vā bhavanti iti |

[sūryācandramasoh samaliptīkaranaṇam]

iṣṭakālāvadheḥ vā parvaṇi samaliptāvidhānam | gatagantavyatām parvaṇaḥ vidhāya
gatagantavyaliptābhiḥ traīrāśikam | tat yathā ā yadi sūryācandramasoh
taddinasphaṭabhuktyantaraliptābhiḥ sūryācandramasoh sphaṭabhuktih yathāsvam
labhyate tataḥ ābhiḥ gatagantavyatihiliptābhiḥ kiyatyaḥ sphaṭabhuktihiliptāḥ iti labdhāḥ
liptāḥ ravau gantavyaparvaṇi prakṣipyante, śaśini ca | atha gataparvaṇi tayoḥ eva
yathāsvam traīrāśikāyātaliptāḥ viśodhyante | evam
gantavyagataparvaṇaḥ paryavasānakālikau samaliptau bhavataḥ iti gaṇitapāde api
asmābhiḥ "bhukteḥ vilomavivare" [gaṇitaī, 31] iti asyām āryāyām saṃkṣepataḥ
abhihitam iti kṛtvā iha tu vistareṇa pradarśitam |

[candranakṣatrapratipacchedaparijñānam]

candrayuktena nakṣatreṇa vyavahāraḥ iti pratyaham
candrayuktanakṣatrapratipaccheda [parijñānam] kriyate | tat yathā ā śaśiliptābhiḥ
traīrāśikam ā yadi maṇḍalaliptābhiḥ khakhaṣadghanatulyābhiḥ saptavimśatih nakṣatrāṇi
labhyante tataḥ [ābhiḥ candragataliptābhiḥ kim iti | atra guṇakārabhāgahārayoḥ
apa]vartanam kriyate | saptavimśatih saptavimśatibhāgena ekam khakhaṣadghanasya
api tāvatbhāgena aṣṭau [śatāni, ataḥ śaśiliptā]nām aṣṭābhiḥ śataiḥ bhāge

nakṣatrāṇām aśvinyādīnām [yāni gatāni teṣām samkhyā] labhyate | śeṣe
gatagantavyam kṛtvā vartamānasya nakṣatrasya gatagantavyāḥ nādyah sādhyante |
katham? yadi sphuṭabhuktyā ṣaṣṭih nādyah labhyante, ābhiḥ gatagantavyaliptābhiḥ¹
kiyatyah iti gatagantavyanādyah labhyante | ṣaṣṭibhukteḥ
ahorātrakālāvadhiniṣpannatvāt, ahorātrasya ca pramāṇam ṣaṣṭih nādyah iti ṣaṣṭyā
trairāśikam kriyate || 25 ||

iti bhāskarasya kṛtau āryabhaṭatantrabhāṣye kālakriyāpādah samāptah ||

Golapādah

[maṅgalācaraṇam]

namah̄ sanmaṅgalajñānapūrṇakumbhāya rājate |
surāsuraśiroghṛṣṭapādapiṭhāya vedhase ||

[golabandhaḥ]

kālakriyānantaram golam, "trīṇi gadati gaṇitam kālakriyām golam" iti uktatvāt | gamyate
jñāyate asmāt iti golam | kim punar asmāt gamyate?
grahabhramaṇadharitrīṣamsthānādīni sarvam | evam paramārthajīvīṣasavah̄ hi
asatyapūrvakam satyam pratipadyante | tat yathā bhiṣajah̄ hi utpalanālādiṣu
sirāvedhanādīni pratipadyante, yajñaśastravidah̄ śuṣkeṣṭyā yajñādīni [pratipadyante],
vaiyākaranāḥ prakṛtipratyayalopāgamavarnavikārādibhiḥ sādhuśabdam pratipadyante,
evam atra api sāṁvatsarāḥ vṛttaśalākāsūtrāvalambakādibhiḥ kṣetragaṇitaviśeṣaiḥ
pāramārthikam golam pratipadyante | tasmāt diṇmātrapradarśanam eva etat ārabhyate,
aśakyatvāt aśeṣapradarśanasya | kah̄ hi citrayan nimeṣonmeṣādi api citrayati | tasmāt

śrīparṇīvañculakāṣṭhayoh anyatamam ardhaṿṛttacakrasvarūpam krākacikaiḥ vṛttam
ekam niṣpādayet | tataḥ sugaṭitārdhaṿṛttadvayena tribhiḥ vā sugaṭitavṛttasakalaiḥ
vṛttam ekam nirmāpayet | tatra vṛttasakalasandhicchedāḥ
trayah śurapuṇkhaṇpārśvacchedāvayavārdhacchedāḥ iti | tatra eteṣām anyatamena
vṛttasakalāni anyonyam ghaṭayet | tāmrakīlakaiḥ tatra evam niṣpannam ekam vṛttam
pūrvāparam nidhāya dvitīyam dakṣiṇottaram upari adhaḥ ca janitasvastikam
svastikasampāte ca maṇḍaladvayam ardhaṭcedena chitvā tathā samyojyam yathā
ekam eva vṛttam lakṣyate | tau vihitārdhacchedena svastikacatuṣṭayam praveṣya
niṣcalam nidadhya tāmrakīlakaiḥ niṣcalīkriyate |

tataḥ tayoh maṇḍalayoh bahiḥ parikaravat dikcatuṣṭayajanitasvastikam anyam tathā eva
ardhaṭcedena svastikacatuṣṭayam praveṣya niṣcalam nidadhyāt |
pūrvāparamaṇḍalam ṣaṣṭyaṇkāṇkitam kārayet, yathā ekaikasmin caturbhāge
pañcadaśa pañcadaśāṇkāḥ syuḥ | te ca ahorātraghāṭikāḥ | evam pariṣeṣam
maṇḍaladvayam api, ekaikam ṣaṣṭiṣatratrayāṇkitam [kārayet] | tāni viṣuvat [yāmya
uttarakṣitija]maṇḍalāni | tat tulyam eva aparam maṇḍalam ṣaṣṭiṣatratrayāṇkitam
pūrvasvastike aparasvastike ca tiryak tribhāgacchedam kṛtvā dvau tribhāgau
maṇḍalapradeśasya svastikam ghaṭayet | yathā vā maṇḍalatrayasampātām ekam eva
lakṣyate tathā avachedāḥ kalpanīyah | pūrvāparadakṣiṇottaramaṇḍalayoh yaḥ adhaḥ
svastikāḥ tasmāt uttareṇa uttaraśalākāyām caturvīṁśatibhāge tathā eva ardhaṭcedena
svastikam kārayet | upari api tathā eva uparisvastikāt dakṣiṇena [dakṣiṇa]śalākāyām
caturvīṁśatitame bhāge svastikam kārayet | sarvatra niṣcalīkaraṇam
tāmrakīlakaiḥ | evam tiryak rāśipadaḥ vyavasthitāḥ | sa eva apamaṇḍalam iti ucyate |
tāvatpramāṇam eva anyat maṇḍalam sañcāri yatra candramasah sampātah vartate
tasmin badhvā tataḥ uttareṇa parataḥ nivatitame bhāge yathā ca ardhaṇcamabhbhāgāḥ
tasya ca apakramamaṇḍalasya ca antare bhavanti tathā vidhāya pātabhāge
cakrārdhāntare badhīyāt | evam tataḥ dakṣiṇena navatitame bhāge ardhaṇcamā

bhāgāḥ tasya apakramamāṇḍalasya ca yathā antare bhavanti tathā
nidadhyāt | evam tat vimāṇḍalam, tat eva vikṣepamāṇḍalam iti ucyate |

evam anyeśām api svebhyah svebhyah pātabhāgebhyah api māṇḍalāni |
budhaśukrayoh śīghroccābhyaṁ | svāhorātramaṇḍalāni api sañcārīni ā viśuvataḥ
uttareṇa meśāpakramakāṣṭhatulyāntare pūrvāparāyatam māṇḍalam meśasya
ahorātramaṇḍalam, vṛṣāntāpakramatulyakāṣṭhāntare vṛṣasya,
mithunāntāpakramatulyakāṣṭhāntare mithunasya, tāni eva utkramenā
karkaṭakasimhakanyānām; evam [viśuvataḥ] dakṣiṇena tulāvṛścikadhanuśām
svāhorātramaṇḍalāni,
tāni eva utkramenā makarakumbhamīnānām | svāhorātramaṇḍaleśu dakṣiṇottarāyatāni
sūtrāṇi badhnīyāt | teṣām ardhāni apakramajyāḥ | meśasya ahorātramaṇḍalena
unmāṇḍalasya yatra sampātaḥ tatra sūtrasya ekam agram badhvā mīnasya
ahorātronmāṇḍalasampāte dvitīyam agram badhnīyāt | bhūmadhyāvabhedisūtram
viśuvatā saha badhnīyāt, tasya prathamasūtrasya ca yatra sampātaḥ tatra
prathamasūtrārdham bhavati | evam anyeśām sūtrāṇām ardhāni | tāni
sarvāṇi ahorātrāpakramajyāḥ santi | aśakyatvāt kvacit tu pradarśyante | yāni
vikṣepāpakramasvāhorātramaṇḍalāni vyākhyātāni [tāni na] pradarśyante | anyathā
kālasamah golah bhramayitum na śakyate, māṇḍalabahutvāt |

atha suślakṣṇām ṛjvīm ayaḥśalākām gopucchāyatavṛttām
dakṣiṇottarasvastikāvabhedinīm nirgatobhayāgrām pañjarabhārasahām nidadhyāt |
tanmadhye bhuvam samavṛttām mṛdā anyena vā racayet | evam ayam ekaḥ eva
pañjarah sarvesām grahāṇām | yasmāt bhinnakakṣyāsthāḥ api grahāḥ ekakakṣyāgatāḥ
eva upalakṣyante, tasmāt ayam eva ekaḥ pañjarah | athavā sarvesām eva pṛthak
pṛthak pañjarāḥ yāvat tāvat paricchinnasvakakṣyāpramāṇāḥ eva pradarśayitavyāḥ
|

athavā pañjarasya bahiḥ [dakṣinottara]svastikayoh ayaḥśalākāyām tryaṅgulām
caturaṅgulām vā ślakṣṇām śaradaṇḍikām niścalām nidadhyāt | tataḥ
yāvattāvatpramāṇaparicchinnakhakṣyāparikalpitam ubhayataḥ
cakrārdhāntarakṛtavedham [maṇḍalam] dakṣinottarāvagāhi nidhāya tasya madhye
pañjaram praveśya tām ayaḥśalākām ubhayatra pārśvavedhau praveśayet, yathā sā
śaradaṇḍikā pañjaradvayasīmāvagāhinī bhavati | tāvatpramāṇam eva anyadvṛttam
pūrvāparāvagāhi upari adhah ca janitasvastikam pūrvavat nidadhyāt | tat
samamaṇḍalam | punar api tāvat eva anyat maṇḍalam parikaravat
dikcatuṣṭayajanitasvastikam dakṣinottarasvastikasampātakṛtavedham ubhayatra
lohaśalākām praveśya niścalam nidadhyāt | tat kṣitijamaṇḍalam | evam ayam golah
viśuvati samah eva avatīṣṭhate | viśuvataḥ uttareṇa yāvān aksah tāvatsu bhāgeṣu
khagolottarasvastikāt upari vedham kārayet, dakṣinataḥ ca tāvati eva antare [adhah]
vedhah
| pūrvavedhābhyaṁ ayaḥśalākām niṣkāya
svadeśākṣabhbāgapramāṇaparikalpitavedhayoh praveśayet | evam
svavīṣayākṣapramāṇena avasthitah golah, tatra sarvam eva pradarśayet | atha
khagolapramāṇam eva anyadvṛttam ubhayataḥ cakrārdhāntarakṛtavedham uttarah
nirgatāyahśalākāgram praveśayet | dvitīyavedham dakṣinataḥ nirgatāyahśalākāgram
praveśayet | tatra tat niścalam nidhāya, tasya pūrvāparasvastikasampāte pūrvavat
tiryagbhedenā pūrvāparasvastikayoh
niścalam tat maṇḍalam nidadhyāt | tat unmaṇḍalam iti ācakṣate | sarvāṇi eva vṛttāni
śaṣṭiśatatrabayahgāṅkitāni kārayet |

anye punar samāyāmavanau khagolārdhapramāṇam avaṭam khātvā tatra yathā
kṣitijamaṇḍalam upari bhavati tathā ardhanimagnam khagolam nidhāya darśayanti |
evam ayam kāṣṭhamayaḥ golah kriyate | kāṣṭhāsambhave

paripakvālpasuśiraślaksṇavamśaśalākāvṛttaiḥ vā golah kriyate | evam golam badhvā
sarvam eva avaśeṣam śāstre vyākhyāyate |

[bhagole apakramamaṇḍalam]

atra āditah eva tāvat apakramamaṇḍalam āha ā

meṣādeḥ kanyāntam samam udak apamaṇḍalārdham apayātam |
taulyādeḥ mīnāntam śeṣārdham dakṣiṇena eva || 1 ||

meṣādeḥ meṣasya ādiḥ meṣādiḥ, tasmāt meṣādeḥ, kanyāntam antam paryavasānam,
kanyāyāḥ antam kanyāntam; meṣādeḥ ārabhya yāvat kanyāntam | samam tulyam |
udak uttareṇa | apamaṇḍalārdham | apamaṇḍalasya apakramamaṇḍalasya ardham,
apakramamaṇḍalārdham | apayātam tiryak vyavasthitam | taulyādeḥ taulinah ādiḥ
taulyādiḥ, tasmāt taulyādeḥ, mīnasya antam mīnāntam; taulyādeḥ ārabhya yāvat
mīnāntam | śeṣārdham śeṣam ca tadardham
ca śeṣārdham, athavā śeṣasya jyotiścakrasya apamaṇḍalasamjñitasya ardham
śeṣārdham | tat dakṣiṇena, dakṣiṇadigbhāgena tadardham | "eva"śabdaḥ
āryāpūraṇārtahm pratipāditah | athavā evam ardhamātram api paścārdhe pradarśayati,
yathā uttareṇa samam apakramamaṇḍalam tiryak vyavasthitam, evam atra api
dakṣiṇena tasya eva apakramamaṇḍalasya ardham tiryak eva avatiṣṭhate iti |
atra vinā api "sama"śabdena ṣaḍrāśipramāṇābhidhānāt
udagdakṣiṇāpakramamaṇḍalārdhasamatvam gamyate, samagrahaṇam atiricyate | na
atiricyate ā pratideśam akṣaviśeṣat rāśīnām udayakālāḥ viṣamāḥ upalakṣyante, tena
samaśabdāt ṛte viṣamapramāṇānām rāśīnām grahaṇam syāt, tataḥ ca akṣaviśeṣat
meṣādīnām apakramajyāḥ pratideśam bhinnapramāṇāḥ syuḥ | "sama"śabde punar
kriyamāṇe tulyapramāṇarāśigrahaṇam siddham, yasmāt sarvah eva

rāśih jyotiścakradvādaśabhāgah, sa ca trimśat trimśadbhāgapramāṇah iti | evam
apakramamaṇḍalam viśuvataḥ uttareṇa meṣādeḥ kanyāntam tiryak avatiṣṭhate | tat eva
tulyādeḥ mīnāntam dakṣiṇēna viśuvataḥ tathā eva avatiṣṭhate | katham idam anuktam
gamyate viśuvataḥ iti | na eṣah dosah | udagdakṣiṇēna iti b(r)uvan ācāryah siddham
eva viśuvanmaṇḍalam pradarśayati | anyathā hi udagdakṣiṇēna iti, etat anarthakam
syāt | udagdakṣiṇāśabdau ca digvācinau, dik vyavasthā
apekṣayā bhavati | atah pūrvam viśuvanmaṇḍalam badhvā tataḥ apakramamaṇḍalam
badhyate | sarvāṇi eva maṇḍalāni ṣaṣṭiśatatravāṇkitāni kriyante, yasmāt
ṣaṣṭiśatatravāṇmśam jyotiścakram || 1 ||

[apakramamaṇḍalacāriṇah]

tasmin ca apakramamaṇḍale ke bhramanti iti āha ā

tārāgrahendupātāḥ bhramanti ajasram apamaṇḍale arkaḥ ca |
arkāt ca maṇḍalārdhe bhramati hi tasmin kṣiticchāyā || 2 ||

tārāgrahāḥ bhaumabudhabṛhaspatiśukraśanaiścarāḥ, tārāgrahendupātāḥ bhramanti
ajasram avyavacchedena, apamaṇḍale apakramamaṇḍale, arkaḥ ca na kevalam ete
tārāgrahendupātāḥ apamaṇḍale bhramanti, arkaḥ ca | tatra apamaṇḍale ajasram arkaḥ
ca bhramati | arkāt ca maṇḍalārdhe arkāt punar maṇḍalārdhe ṣadrāśyantare, bhramati
hi tasmin tatra maṇḍalārdhe, bhūcchāyā | yathā stambhādīnām pradīpavaśāt chāyā
bhramati, evam bhuvah̄ api arkavaśāt,
na kevalam tārāgrahendupātāḥ iti |

pātānām apakramamaṇḍale gatiḥ uktā | tat kim idānīm arkāt maṇḍalārdhe bhūcchāyā
bhramati iti ucyate | na ca bhūcchāyāvyatiriktaḥ pātāḥ asti candramasaḥ | na eṣah

dosah | sarvesām eva tārāgrahāñām ye pātāḥ te apakramamañdale bhramanti |
candramasaḥ punar pātāḥ arkāt mañḍalārdhe apakramamañdale bhramati iti etat eva
artham | "arkāt ca mañḍalārdhe bhramati hi tasmin kṣiticchāyā" iti kathayati | nanu ca
budhādīnām ye pātāḥ te niścalāḥ teṣām
niścalāñām katham apakramamañdalagatih ucyate ? na te niścalāḥ, "navarāśaha gatvā
amśakān prathamapātāḥ" [gītikāí, 9] iti atra "gatvā"-śabdena teṣām gatyupadeśāt |

"tārāgrahendupātāḥ" iti iyam āryā kim artham ārabhyate? tārāgrahādīnām gatih
apakramamañdale vijñāyate | uktam ca "bhāpakramah grahāñśāḥ" [gītikāí, 8] iti
sarve[śām gatimatā]m ete apakramabhāgāḥ iti | yadi ca gītikortam api atra punar
ucyate, tadā tarhi bahu atra abhidheyam iti | athavā raveḥ cakrārdhe bhūcchāyā
bhramati iti etat pradarśayitavyam syāt, tat ca na pradeśāntarapradarśitatvāt |
"bhūravivaram vibhajet" [golaí, 39] iti atra pradīpacchāyopapatyā
bhūcchāyānayanam upadiśet | raveḥ cakrārdhe bhūcchāyā bhramati iti etat
pradarśayati, yataḥ hi śāṅkah rjusthitasya pradīpasya tat rjupravṛttacchāyā | tasmāt
iyam āryā ārabdhavyā iti || 2 ||

[vikṣepamañḍalacāriṇah]

grahāñām vikṣepamañḍalapradarśanāya āha ā

apamañḍalasya candraḥ pātāt yāti uttareṇa dakṣinataḥ |
kujagurukonāḥ ca evam śīghroccena api budhaśukrau || 3 ||

apamañḍalasya | apamañḍalam apakramamañḍalam | apakramamañḍalasya candraḥ |
apamañḍalasam̄bandhī candraḥ "apamañḍalasya candraḥ" iti ucyate |
apamañḍalasam̄sthitaḥ vā candraḥ apamañḍalasya candraḥ, yathā ā kusūlasya

vrīhayah | athavā adhikaranārthā iyam ṣaṣṭhī, yataḥ hi ekaśatam ṣaṣṭhyarthāḥ,
apamaṇḍale candraḥ iti etasmin arthe | sa apamaṇḍalavyavasthitah candraḥ pātāt yāti
gacchati | pātaśabdena candramasaḥ vikṣepāpakramamaṇḍalayoh samyogaḥ
abhidhīyate | tasya ca samyogasya pratikṣaṇam gatimattvāt, sā gatiḥ pātaśabdena
abhidhīyate, upacārāt | atah sa gatisamjñitah pātah yasmin rāśau yāvatithe bhāge
vartate tasmin rāśau tāvatithe bhāge apakramamaṇḍalapramāṇam eva anyat
maṇḍalam tasmin badhvā dvitīyam ardham cakrārdhāntare tathā eva badhnīyāt yathā
tat apakramamaṇḍalāt uttareṇa avatiṣṭhate tasya [prathamam ardham], yathā dvitīyam
ardham vā dakṣiṇena upalakṣyate | evam ca prathamapātāt
apakramamaṇḍalasya uttareṇa vikṣepamaṇḍalam, dvitīyapātāt ca dakṣiṇena, ubhayatra
cakracaturbhāgāntare yathā ardhapañcamāḥ bhāgāḥ tasya ca apakramamaṇḍalasya
antare bhavanti tathā badhnīyāt vikṣepamaṇḍalam | tasmin candraṁāḥ bhramati |
viśuvataḥ uttareṇa dakṣiṇena vā tat apakramamaṇḍalam | tasmāt apakramamaṇḍalāt
uttareṇa dakṣiṇena vā vikṣepamaṇḍalam pradarśayet |

candrasya ca vikṣepamaṇḍalavyavasthitasya viśuvataḥ ca antarānayane iyam yuktih ā
sphuṭacandramasaḥ bhujajyayā traīrāśikam ā yadi vyāsārdhatulyayā bhujajyayā
caturvimśat�apakramabhāgajyā labhyate tataḥ candra bhujajyayā kā iti,
apakramabhāgajyā labhyate | tataḥ pātāt apakramamaṇḍalavyavasthitah candraḥ
dakṣiṇena uttareṇa vā yāti iti uktavān | pātāvadhi parijñānāya sphuṭacandramasaḥ
pātah viśodhyate, tatra viśeṣasya yā jyā tayā traīrāśikam ā yadi
vyāsārdhajyayā candra vikṣepabhāgajyā labhyate anayā iṣṭajyayā kā iti, iṣṭavikṣepajyā
labhyate | tayoḥ vikṣepāpakramajyayoh kāṣṭhīkṛtayoh tulyadikkayoh yogah, yasmāt
apakramamaṇḍalāt parataḥ candraḥ vartate | bhinnadikkayoh viśeṣah, yasmāt ārāt
apakramamaṇḍalāt [vikṣepamaṇḍalam] candraḥ ca | gole yathārtham pradarśayet |
yogaviśeṣabhāgānām yā jyā tāvat antaram viśuvataḥ candramasaḥ ca | jyāpramāṇena
kāṣṭhapramāṇam uktam |

kujagurukonāḥ ca evam bhaumabṛhaspatiśanaiścarāḥ ca | yathā candraḥ svasmāt
pātāt uttareṇa daksinēna vā apakramamāṇḍalasthitah yāti, evam eva kujagurukonāḥ |
eteśām vikṣepamāṇḍalāni vikṣepāpakramayogaviśeṣayuktayah candravat
pratipattavyāḥ | cakāraḥ etat eva artham samuccinoti |

śīghroccena api budhaśukrau | śīghrodbhūtena budhaśukrau pātāt vikṣepamāṇḍalayoh
bhramataḥ | etayoh śīghroccau apakramamāṇḍale pātabhāgāpramāṇagatī bhavataḥ |
pātabhā[gāt tattatpradeśe] vikṣepamāṇḍale badhnīyāt | [evam tarhi] etayoh
apakramaparijñānam api śīghroccāt eva | kutaḥ? apakramamāṇḍalāt pātāt vikṣepam
bruvatā taduccayoh apakramamāṇḍalasthitih pradarśitā bhavati, yataḥ
apakramamāṇḍalasthitah vikṣepamāṇḍale pravartate | [te]na
samyak idam avagamyate ā etayoh apakramam api śīghroccāt iti | kutaḥ vikṣepasya
eva kevalasya? "śīghroccena api budhaśukrau" iti śīghroccāt pātapravṛttāt etayoh
vikṣepaparijñānam ucyate, nāpamaparijñānam | atah svataḥ e[va e]tayoh
apakramānayanam śīghroccāt | evam api apakramamāṇḍalasthitau etau
vikṣepamāṇḍale pratartate iti eta[t upapa]nnam eva | etat kutaḥ
vikṣepaparijñānamātram eva etayoh? upāyāntareṇa vikṣiptam punar svataḥ eva
apamāṇḍalāt pratiyakṣena
upadiṣṭam, candravikṣepapradarśitam eva arthaviśeṣam sambhāvayati | sarvesām eva
vikṣepah apakramamāṇḍalāt uttareṇa daksinēna ca | [pātāt] cakracaturbhāgāntare
yathā uktāḥ [vikṣe]pabhāgāḥ vikṣepāpakramamāṇḍalayoh antare yathā avatiṣṭhante
tathā pradarśyante | "apamāṇḍalasya candraḥ pātāt yāti" iti etat api gītikāsu
upapadiṣṭa[pātānusāreṇa ava]dheyam | śāśī vikṣepamāṇḍalasthitapātāt prabhṛti
vikṣepamāṇḍale pravartate, iti etat anuktam na gamyate | "śīghroccena
api budhaśukrau" iti e[tat api] vaktavyam | atah avaśyam etat āryāsūtram vaktavyam || 3
||

[grahāṇām kālāṁśāḥ]

grahāṇām udayāstamayaparijñānāya ādityagrahāntarabhāgān āha ā

candraḥ amśaiḥ dvādaśabhiḥ avikṣiptaḥ arkāntarasthitāḥ dr̄syāḥ |
navabhiḥ bhṛguḥ bhṛgoḥ taiḥ dvyadhikaiḥ dvyadhikaiḥ yathā ślakṣṇāḥ ||4||

candraḥ amśaiḥ dvādaśabhiḥ | ayam amśaśabdaḥ sāmānyena vibhāgamātravācī | tena
"sāmānyacodanāḥ ca viśeṣe avatiṣṭhante" iti amśaviśeṣeṣu avasthāpyante | viśeṣaḥ ca
kālāṁśatā | ete kālavibhāgāḥ | te kālabhāgāḥ ucyante | "prāṇena eti kalām bham"
[gītikāí, 6] iti uktam | tena ucchvāsaprāṇasya liptāsamjñātvam | tataḥ prāṇānām
saptaśatasya viṁśatyadhikasya [720] dvādaśa bhāgāḥ, ghaṭikādvayam iti arthaḥ | yataḥ
ghaṭikādvayasya prāṇāḥ saptaśatāni viṁśatyadhikāni
[720] | athavā sūryāt paścāt prāk vā kālena antaritaḥ grahaḥ yasmāt [dr̄syāḥ tasmāt]
kālāṁśatvam | evam kālabhāgaiḥ dvādaśabhiḥ antaritaḥ candraḥ | avikṣiptaḥ, na
vikṣiptaḥ avikṣiptaḥ | arkāntarasthitāḥ | arkāt antaram arkāntaram, tasmin arkāṁtare
dvādaśakālāṁśa-pramāṇena avikṣiptaḥ vyavasthitāḥ, nabhasi vyapetābhratamasi
lakṣyate |

yadā punar asau vikṣiptaḥ ghaṭikādvayāt ūnādhike kāle dr̄syate, yasmāt arkāt uttareṇa
vikṣiptaḥ candraḥ golasya uttaronnatativāt ūne api ghaṭikādvaye kāle dr̄syate,
dakṣiṇavikṣiptaḥ ca unnatativāt golasya dakṣiṇena ghaṭikādvayādhikakāle dr̄syate |
tasmāt uktam avikṣiptaḥ iti | tasmāt vikṣepakarmakṛtvā etat antaram ālocyate |

navabhiḥ bhṛguḥ | tathā eva kālabhāgaiḥ navabhiḥ arkāntarasthitāḥ avikṣiptaḥ bhṛguḥ
dr̄syate | navabhiḥ kālabhāgaiḥ vikṣiptasya vikṣepakarma candravat eva | bhṛgoḥ taiḥ |

bhrgoh śukrasya ye bhāgāḥ | navabhiḥ bhrguh taiḥ dvyadhikaiḥ dvyadhikaiḥ iti etāvatā
siddhe punar bhrgugrahaṇam kurvan ācāryah jñāpayati ā bhrgoh iyam kāṣṭhabhāgāḥ
nava iti, tebhyah eva navabhyah gurvādyantarabhāgapratipattiḥ | anyathā hi ayam
bhrguh atah nyūneṣu api triṣu
catusu vā antaritah vakrakāle udayāstamayau kurvan laksyate iti etat punar
bhrgugrahaṇam | taiḥ dvyadhikaiḥ dvyadhikaiḥ iti vīpsāgrahaṇam ca
bhāgadvayāntaragrahaṇārtham | anyathā hi sarvesām eva nava eva bhāgāḥ syuḥ |

yathā ślakṣṇāḥ | ete grahāḥ ślakṣṇāḥ parihīyamānaśarīrāḥ pratipāditāḥ tathā
dvyadhikaiḥ dvyadhikaiḥ arkāntarasthitāḥ avikṣiptāḥ santāḥ drṣyante | uktāḥ ca eśām
yathāślakṣṇākramāḥ ā

bhrgugurubudhaśanibhaumāḥ śaśi-ṇa-ṇa-ṇa-na-māṁśākāḥ | [gītikāī, 7]

iti | bhrgoh bhāgaiḥ dvyadhikaiḥ bṛhaspatiḥ drṣyate ṣaḍbhāgonaghaṭikādvayena, taiḥ
dvyadhikaiḥ bṛhaspateḥ trayodaśabhiḥ ṣaḍbhāgottaraghāṭikādvayena budhāḥ,
budhabhāgaiḥ dvyadhikaiḥ śanaiścarah sārdhena ghāṭikādvayena, śanaiścarabhāgaiḥ
dvyadhikaiḥ bhaumah ṣaḍbhāgonaghaṭikātrayena, etāvadbhiḥ kālabhāgaiḥ antaritāḥ
drṣyante iti uktam | adarśanam punar eśām katham avagamyate? kecī tāvat āhuḥ ā
etāvadbhiḥ eva bhāgaiḥ | kutah? tulyatā samhitāyām
| arkāntarasthitāḥ drṣyah adṛṣyah ca | katham etāvadbhiḥ eva bāgaiḥ drṣyah adṛṣyah
ca? yadā arkāt niṣkrāmati grahāḥ tadā tāvadbhiḥ eva drṣyate, yadā sa eva arkam
praviśati tadā [tāvadbhi]ḥ eva antaritah na drṣyate | etat ca [na] ā yāvatā niṣkrāmataḥ
praviśataḥ vā grahasya tulyam idam antaram, tena drṣyena vā graheṇa bhavitavyam
adrṣyena vā | sa tāvat iṣṭakālāṁśakaiḥ drṣyah eva upalabhyate | tasmāt
tulyasamhitāvyākhyānam asat iti | katham tarhi? ucyate ā etāvadbhiḥ
eva bhāgaiḥ arkāntarasthitāḥ niṣkrāmat praviśat vā drṣyate | ūnaiḥ atah drṣyate iti

arthāt avagamyate, adhikaiḥ punar nitarām dṛṣyate iti etat aśāstrajñah̄ api jānāti |

kālānayanam punar atra deśāntarākṣaviśesarāśyudayapramāṇaiḥ parikalpyate | tat
yathā ā yadi trimśatā svadeśarāśyudayakālaḥ labhyate tadā idānīm
niśpannārkagrahāntarabhbāgaiḥ kālaḥ labhyate | sa yadi
abhīṣṭagrahāntarakālena tulyaḥ tadā asau grahaḥ dṛṣyate, ūne astam gataḥ, adhike
nitarām dṛṣyate | athavā svadeśarāśyudayena trimśatā ca traīrāśikam kṛtvā sarvarāśiṣu
antarabhbāgānayanam ā yadi rāśyudayakālena trimśadbhbāgāḥ labhyante
tadā iṣṭagrahāntarābhīhitakālena kiyantah̄ iti sarvarāśiṣu antarabhbāgāḥ labhyante | taiḥ
vā sakṛtsiddhaiḥ eva antarabhbāgaiḥ iṣṭadeśe grahasya darśanam vaktavyam |
grahāṇām pūrvodayāstamayayoḥ idam karma | aparodayāstamayayoḥ
tatsaptamarāśyudayakālena etat parikalpanam, yasmāt udāyarāśivaśāt eva astam
rāśayah̄ gacchanti || 4 ||

[bhūgrahādīnām prakāśahetuḥ]

dharitṛgrahanakṣatrātārāṇām prakāśahetu pradarśanāya āha ā

bhūgrahabhānām golārdhāni svacchāyayā vivarṇāni |
ardhāni yathāsāram sūryābhīmukhāni dīpyante || 5 ||

bhūḥ pṛthivī | grahaḥ sūryādayaḥ | bhāni jyotiṣi nakṣatrāṇi | bhūḥ ca grahaḥ ca bhāni
ca bhūgrahabhāni, teṣām bhūgrahabhānām | golārdhāni | dharitryādīnām śarīrāṇi
golaśabdena ucyante | atah teṣām golānām ardhāni golākāraśarīrārdhāni iti yāvat |

katham ete grahādayaḥ golākāraśarīrāṇi pratipadyante? bhuvam tāvat anye
śakaṭākārām darpaṇavṛttākārām ca manyante | na etat evam | yathā golākārā bhūḥ

pratipadyate tathā uttarataḥ vakṣyāmi | katham punar atra amī grahāḥ golākārāḥ
pratipadyante? atha ca darpaṇavṛttākārau sūryācandramasau lakṣyete, evam anye api |
anyat ca ā sthityardhādiparilekhanaprakriyā ca golākāraśārīreṣu na ghaṭate | na etat
asti | ete grahādayaḥ golaśārīrāḥ api santāḥ
dūradeśavartitvāt darpaṇavṛttākārāḥ upalakṣyante | yā sthityardhādiparilekhanaprakriyā
sā dṛgviṣayā, tasyāḥ dṛgviṣayatvāt yathādarśanagatāni eva bimbasaṁsthānāni
aṅgīkṛtya ācāryeṇa uktam | athavā golākāreṣu api sthityardhādyupapattih śakyate
vaktum | yasmāt vikṣepādayaḥ bimbamadhyāt pravṛttāḥ tāvat jñātvā golakānām
bimbārdham darpaṇavṛttākāraḥ iva yathā bhraman niṣpāditah samudgataḥ tasyāḥ
udaram darpaṇavṛttākāram eva upalakṣyate, tasmāt golākārāt
api sthityardhādyupapattisiddhiḥ ca | ataḥ paramārthataḥ eva golākārāḥ, anyathā hi
candramasaḥ sitakṣayavṛddhī darpaṇavṛttākāre bimbe na samvadete | tasmāt
golākāraśārīrāḥ ete | uktam ca ā

sūryaḥ agnimayah golāḥ candraḥ ambumayah svabhāvataḥ svacchāḥ | iti |

svacchāyayā vivarṇāni | svā cchāyā svacchāyā, tayā svacchāyayā ardhāni eśām
[vivarṇāni aprakāśātmakāni kṛṣṇāni iti arthaḥ, na tataḥ anyatkārāṇa]m asti vaivarṇyasya
| yathā ghaṭasya ātapasthasya ekam pārśvam svacchāyayā eva vivarṇam, evam atra
api | yā[ni ardhāni] prakāśante tāni sūryābhīmukhāni | ardhāni | teṣām golānām ardhāni,
yāvanti avaśiṣṭāni svacchāyāvaivarṇyāni vyatiriktāni | yathāsāram | alpānām alpāni,
mahatām mahānti | sūryābhīmukhāni,
ādityābhīmukhāni | dīpyante cakāsanti |

[candrasya sitabhāgaḥ]

yadi ardhāni grahānām sūryābhīmukhāni cakāsanti tadā kim iti candramasaḥ

ardhabimbam sarvadā na cakāsti? cakāsti eva | kim iti na upalabhyate? ucyate ā
amāvāsyāyām candramasaḥ upari ādityaḥ tadā tasya candramasaḥ upari yat
bimbārdham tat aśeṣam avabhāsayati | candrasya amāvāsyopalakṣitoparibimbakendrāt
yathā yathā paścāt ādityaḥ avalambate tathā tathā bimbakendram api aparataḥ
avalambate | tat kendravaśāt candramasaḥ bimbārdham yāvat
eva amāvāsyopalakṣitam bimbaparidhyardhāvadheḥ avalambate tāvat candramasaḥ
bimbam asmābhiḥ upalakṣyate | śeṣam uparisthitatvāt na upalakṣyate |
sūryābhīmukham api savitṛkarā[t chāditam api na dr̄syate] | tasmāt yāvat yāvat
candramasaḥ bimbam savitṛbimbāt ślakṣṇam avalambate tāvān svacchāḥ
candramasaḥ śuklaḥ upalakṣyate | tena ca amī jyotsnāvabhāsināḥ candrakarāḥ |
tena tarhi savitṛmarīcayah tu sa[lila]maye svabhāvāt eva [svaccha]candrabimbe
sammūrcchitāḥ naiśam dhvāntam avadhvāṁsayanti, yathā darpane jale vā divasakarāḥ
sammūrcchitāḥ santah gr̄hāntargatam tamah kṣapayanti |

[candraśr̄ngonnatiḥ]

anyat ca ā yaḥ yaḥ candrabimbapradeśāḥ savitṛmārge r̄jutvena vyavasthitāḥ sa eva
śr̄ngonnatau upalabhyate, na itaraḥ | tathā ca tat jījñāsavah karma kurvanti | tat yathā ā
śuklapratipadādiṣu sūryārdhāstamayakālikau sūryācandramasau kṛtvā
sūryonacandrotkramajyā gr̄hyate | sā yasmāt pratidivasam upacīyamānā, candramasaḥ
śuklam upacīyate | utkramajyā ca upacīyamānapramāṇā | tena tayā utkramajyayā
trairāśikam ā yadi vyāsārdhātulyayā utkramajyayā
sphuṭacandrabimbārdham upalabhyate, tadā anayā utkramajyayā kiyat iti, tat
kālasitamānam labhyate | śuklāṣṭamāyāḥ parataḥ yā sitavṛddhiḥ sā kramajyāvaśāt
upacīyamānā laksyate iti kramajyā gr̄hyate | tāḥ kramajyāḥ pūrvopacitavyāsārdhajyāsu
prakṣipya trairāśikam kriyate | athavā ā tābhīḥ eva kramajyābhiḥ candrabimbārdhena
trairāśikam kṛtvā yat labdham candrabimbārdhe prakṣiptam sitamānam bhavati |

śuklapratipadādiṣu yathā candramasah sitamānam vardhate
tathā kṛṣṇapratipatprabhṛtibhyah sitamānam utkrameṇa apacīyate | tena
sūryācandramasoh viśeṣat rāśiṣatkam apanīya tathā eva karma kriyate |

[candrasya darśanakālah]

darśanakālah hi yāvantam kālam candraḥ dr̄syate | yavatā kālena udeti tat
ānayanopāyah ā śuklapakṣe tāvat udayarāśivaśāt eva jyotiścakragatiḥ iti atah yāvantah
sūryāt candrarāśibhāgāḥ tāvantah eva udayāvadheḥ svadeśarāśyudayaprāṇāḥ
parigṛhyante | tat yathā ā āstamayike savitari ṣaḍrāśayah parikṣipyante sa sūryāt
saptamah rāśih bhavati | tathā ca candramasi ṣaḍrāśayah parikṣipya
sūryagatarāśibhāgān trimśatā viśodhayet śeṣam sūryasya āgatarāśibhāgāḥ
| tat ṣaḍrāsiyutasūryavartamānarāśyudayena saṅguṇayya trimśatā vibhajet, labdham
prāṇāḥ | tān ekataḥ vinyaset | sūryagatarāśibhāgān ca ṣaḍrāsiyutasūrye prakṣipya tāvat
svadeśarāśyudayaprāṇāḥ saṅkalanīyāḥ yāvat ṣaḍrāsiyutacandragatāḥ bhāgāḥ | tataḥ
ṣaḍrāsiyutacandragatāḥ bhāgāḥ tat rāśyudayaprāṇaiḥ saṅguṇya trimśatā vibhajet,
labdham prāṇāḥ | tān pūrvasaṅkalitaprāṇān ca sarvān ekatra nyastaprāṇeṣu prakṣipya
ṣaḍbhiḥ bhāgah, labdham vighaṭikāḥ, ṣaṣṭyā
ghaṭikāḥ | evam ghaṭikādilakṣaṇah darśanakālah | tāvatā kālena sūryācandramasoh
gativiśeṣah asti iti aviśeṣakarma pravartate | tat yathā ā yadi ṣaṣṭyā ghaṭikābhiḥ
sūryabhuktih candrabhuktih vā labhyate tataḥ anena darśanakālena te kiyat�au tayoh
bhuktī iti | sūryabhuktilabdham ṣaḍrāsiyuktasūrye prakṣipet, candrabhuktilabdham api
ṣaḍrāsiyutacandramasi prakṣipya tāvat idam kuryāt yāvat aviśeṣah | tatra yaḥ aviśiṣṭah
kālah sa darśanakālah | tāvantam kālam śarvayām
śaśī dr̄syate | yaḥ ca ṣaḍrāsiyuktah candraḥ aviśiṣṭah tasmāt cakrārdham apanayet
tāvān candraḥ darśanakālaparisamāptau astam eti |

atha kaścit yadi kiyatā kālena a[na]stamite savitari candrodayah bhaviṣyati iti etat
jijñāsuḥ, idam karma kuryāt | tat yathā ā avikṛtāstamayakālādityabhāgebhyaḥ prabhṛti
tāvat prāṇāḥ samkalanīyāḥ yāvat avikṛtaśītāṁśoh gatabhāgaprāṇāḥ | tān pūrvavat
ghaṭikāḥ kṛtvā [dina]pramāṇaghaṭikābhyaḥ viśodhayet | tatra yaḥ śeṣaḥ sa divasaśeṣaḥ
| tāvatā divasaśeṣeṇa tadā candrodayah bhaviṣyati | atra api sūryācandramasoh
aviśeṣakarma pravartate | tat yathā ā āsām
nādīnām yaḥ yaḥ bhogaḥ tena adhikau sūryācandramasau iti ataḥ tābhyām apanīya
apanīya aviśeṣaḥ kriyate | aviśeṣitah darśanakālah tāvatā kālena divasaśeṣaḥ eva
candrodayah | yaḥ asau aviśiṣṭah candraḥ tāvān tatra divasaśeṣodayakāle candraḥ |

athavā prathamānītadivasaśeṣacandrodayakālena candramasah bhuktim saṅguṇayya
saṣṭyā vibhajet | labdham candrāt viśodhayet | sa tāvat divasaśeṣakālikah candraḥ
bhavati | tataḥ prathamānītadivasakālena udayalagnam kuryāt | tat udayalagnam tena
divasaśeṣoditacandreṇa tulyam yadā, tadā divasaśeṣam candrodayakālah | atha yadi
tasmāt lagnāt ūnah candraḥ tadā prathamataram uditah iti | tayoḥ lagnacandrayoh
antarālaprāṇān prathamānītadivasaśeṣakālāt
viśodhayet | teṣām ca prāṇānām yāvatī candrabhuktih traīrāśikena labhyate tāvatī
prathamadivasaśeṣoditakālacandrāt viśodhyate tāvān candraḥ divasaśeṣoditah, tāvān
ca divasaśeṣakālah | candraḥ ca yadā adhikah tadā pūrvavat tadantaraprāṇān
divasaśeṣakāle prakṣipet tāvatām prāṇānām candrabhogam candramasi prakṣipet,
tāvat karma yāvat aviśeṣaḥ | athavā prathamāstamayikacandrāt eva
antarotpannadidivasaśeṣakālabhogaḥ candramasah viśodhya tat kālalagnakrameṇa
aviśeṣakarma kriyate |

atha yadi udayalagnāt candraḥ adhikah tadā [kiyan]nādyā abhyudeti candraḥ iti
tadantaraprāṇān prathamānītadivasaśeṣe prakṣipet | tat bhuktim candramasi prakṣipet
tāvat yāvat aviśeṣaḥ | evam udayalagnam candraḥ ca kṛtaḥ bhavati,

divasašeśacandrodayakālah ca | evam yāvat paurnamāśī tāvat darśanakālānayanam |
paurnamāsyām punar tāvat eva antaraghāṭikāḥ yadi dinapramāṇaghaṭikābhyah ūnāḥ
bhaveyuh tadā anastamite āditye candrodayah, yadi atiriktāḥ
tadā astamgate | ubhayatra api antarakālapramāṇena aviśeṣakarma anantarakarmavat
eva | kṛṣṇapakṣapratipadādiṣu ca candrādityāntaraghāṭikābhyah dinapramāṇaghaṭikāḥ
viśodhya śeṣa[ghaṭikā]bhiḥ bhuktiḥ trairāśikena sūryācandramasau sañcārya punar
tayoḥ antaraghāṭikābhyah dinapramāṇaghaṭikāḥ viśodhayet | śeṣaghaṭikābhiḥ
candrādityau tadantarālaghaṭikāḥ iti ādyaviśeṣāntam karma kriyate, tatra aviśiṣṭena
kālena [sūryāstamayāt paścāt candrodayah | evam
eva aviśiṣṭena kālena] sūryodayāt prāk candrodayah |

atha anastamite savitari kiyatā kālena candraḥ astam yāsyati iti etat jijñāsuḥ idam
karma kuryāt | tat yathā ā sūryodayakālotpannam candramasam kṛtvā tatra rāśiṣatkam
prakṣipet | [tataḥ] prāk candrodayah [jñātavyah] | atha audayikāt ādityāt
ṣaḍrāśiyuktaniśākarāvadheḥ svadeśarāśyudayavidhānena yāvatyah ghaṭikāḥ tāḥ
aviśeṣyante | katham? tāsām trairāśikena yāvat candramasah bhuktih tām candramasi
prakṣipet iti atah punar api tasmāt ādityāt
ṣaḍrāśiyuktacandrāvadheḥ pūrvavat ghaṭikāḥ tāvat yāvat aviśeṣah | tatra yāḥ aviśeṣitāḥ
ghaṭikāḥ tāvatibhiḥ divase vyatītābhiḥ candraḥ astam eti | divasapramāṇāt viśodhya
śeṣam dinaśeṣaghaṭikāḥ ca | atra yāḥ aviśiṣṭah candraḥ sa tasmin kāle tāvān, yāḥ ca
ṣaḍrāśiyuktah candraḥ sa tasmin kāle udalagnam iti |

[candrasya yāmyottarapradeśah]

atha kaścit kiyatā kālena śuklāṣṭamī parataḥ candraḥ gaganamadhyam avagāhate,
kiyān vā tatra candraḥ iti jijñāsuḥ, idam karma kuryāt | atha tatkālāt parataḥ svadhiyā
āsannau madhyalagnaniśākarau abhyūhya, tatra yadi madhyalagnaniśākarau tulyau

syātām tadā tāvān candraḥ tāvatā eva kālena gaganamadhyam ārokṣyati | atha yadi
adhikāḥ candraḥ tadā na adya api prāpnoti gaganamadhyam | tatra
madhyalagnacandrāntarakālam svadhiyā abhyūhitakāle
prakṣipyā madhyalagnacandrau kuryāt yāvat tulyau iti | atha madhyalagnāt ūnah
candraḥ tadā tadantarālakālam svadhiyā abhyūhita[kālāt viśodhya]
madhyalagnacandrau tāvat kuryāt yāvat madhyalagnacandrau tulyau syātām | evam
prasādhitagaganamadhyādhirūḍhāmṛtaḍhiteḥ apakramavikṣepākṣaiḥ madhyacchāyā
prasādhyate |

[candraśrīngonnati parilekhanavidhiḥ]

atha candraśrīngonnati parilekhanavidhiḥ]

atha candraśāṅkavagrayoḥ tulyadikkayoḥ yogaḥ, bhinnadikkayoḥ viśeṣaḥ, tat
yogaviśeṣatulyam iṣṭakāle [bāhu]ḥ candramasaḥ | sa ca antarālataḥ sūryāgrayā saha
ekadikkam viśeṣyate, yataḥ arkāt eva uttareṇa dakṣiṇena vā candraḥ sādhyate, na
viśuvataḥ | vidikkayoḥ yojyate yasmāt yogaḥ arkacandrāntaram | etat chedyake gole vā
pradarśyam | evam pariniṣṭhitapramāṇam bhujā sūryāt yāmya uttarāyatā prasāryate |
candraśāṅkuḥ koṭiḥ | sa yadi sūryāt
uttareṇa candraḥ tadā bhujottarāgrataḥ pūrvāparāyatā prasāryate | yadā dakṣiṇena
candraḥ sūryāt tadā tasyāḥ bhujāyāḥ dakṣiṇāgrataḥ pūrvāparāyatā | evam bhujakoṭi
yathāgata pramāṇena vinyasya bhujākoṭimastakāvagāḥi karṇaḥ dūranirgatāgraḥ
prasārya koṭyagrakarṇasampāte kendram viracya candraimbam ālikhet | tasya
candraimbaparidheḥi aparataḥ karṇānusāreṇa sitamānam nītvā bindum kuryāt |
candraimbakendrapūrvāpare karṇaḥ, tat matsyavidhānāt dakṣiṇottare
sādhye | dakṣiṇottararekhācandra paridhi sampāte bindū kriyete | tataḥ tābhyaṁ
pūrvavihitabindunā ca tathā chedyakavidhānena tat bindutrayaśiraḥsprgvṛttam ālikhet |
tasya vṛttasya candraimbaparidheḥi ca yat antaram tat candra masah śuklaḥ | atha eva
śrīngonnatiḥ nabhasi upalakṣyate |

śuklāśṭamyāḥ parataḥ astakālodayalagnāgrajyayā arkāgrāvat karma [kriyate] |
candrodayalagnāntaraprāṇotpannah śaṅkuḥ, koṭih aparābhīmukhī tathā eva prasāryate
| tatra yathāgatam sitamānam candraimbapramāṇāt viśodhyam śeṣam asitam bhavati
| tatkarṇānusāreṇa candraparidhipūrvabhāgāt bimbāntare asitamānam nītvā bindum
kuryāt | tena dakṣiṇottarabindubhyām ca pūrvavat bindutrayaśiraḥsprgvṛttam ālikhet |
tasya candraimbaparidheḥ ca yat
antaram tat asitam | kṛṣṇapratipadādiṣu ca
aparābhīmukhaprasāritakotīkarṇāgralikhitacandraparidhyaparabhāgāt karṇānusāreṇa
asitam antaḥ pūrvavat vṛttam ālikhet | iṣṭakāle tu yathā pratyāsannāstodayalagnajyām
arkāgrām parikalpya tatkālacandraśaṅkvagram āpādy
iṣṭalagnacandrāntaraprāṇotpannaśaṅkukotyā candraḥ parilekhanīyah | evam sarvatra
kṣitijāt upari vyavasthitasya candraśya parilekhanaprakriyā |

[gṛhapaṭalam vidārya śṛṅgonnatidarśanam]

atha śaṅkubhujākoṭīkarṇapramāṇaparikalpitayantrāgre gṛhapaṭalabimbāntare
śiśiradīdhitiganitasitapramāṇaśṛṅgonnatih pradrśyate | tat yathā ā samyak
prasiddhagṛhodare pūrvāpararekhātaḥ uttareṇa dakṣiṇena vā
parikalpitāṅgulapramāṇam arkāgrāsūtram pūrvavat prasārya bindum kuryāt | saḥ
arkabinduh | pūrvāpararekhāyāḥ eva dakṣiṇottarataḥ candraigrataḥ śaṅkvagrayoh
yogaviśeṣajyāṅgulatulyam sūtram yathā āgatadiśam prasārya bindum kuryāt
| sa śaśibinduh | arkendubindvoḥ antarāṅgulatulyā bhujā | tatkāla[candra]śaṅkutulyā
koṭih avalambakah | tadanusāreṇa avalambakasthityā candraimbānusāriṇyā
gṛhapaṭalam vidārayet | tatra śaṅkvagrāyatadaṇḍāśirasi yathālikhitam tat
chedyakasitaśṛṅgonnatim arkabindunyastadrśtih karṇānusāreṇa
utkṣiptāvalambakāṅgulapramāṇamastakāsaktam śaśalakṣmāṇam paśyati | evam eva

grahāḥ api gṛhodaravyavasthitaiḥ darśanīyāḥ iti |

[ardhodite candre śrīgonnatikalpanā]

kṣitijamaṇḍalākrāntārdhabimbasya candramasaḥ koṭeḥ abhāvāt na parilikhyate | tatra
udayāstajyācandrāgre śrīgasya unnatiḥ parikalpyate | tat yathā ā yadi candrāgrā
dakṣiṇena udayajyā uttareṇa tadā candramasaḥ uttaraśrīngam prāk pradṛṣyate, yataḥ
bhavṛttacandraḥ dakṣiṇena vyavasthitah | bhavṛttacandrānusāreṇa ca sūryamarīcayah
candrabimbam karṇagatyā avagāhante | yadā punar candrāgrā uttareṇa udayajyā
dakṣiṇena tadā candramasaḥ dakṣiṇaśrīngam
prāk pradṛṣyate | yasmāt candramasaḥ dakṣiṇena bhavṛttah sthitah | bhavṛttānusāreṇa
ca sūryamarīcayah candrabimbam avagāhante | dakṣiṇena tulyadikkayoḥ višeṣah,
candrāgrā yadā atiricyate tadā candramasaḥ uttaraśrīngam prāk pradṛṣyate, anyathā
dakṣiṇam | uttareṇa yadā candrāgrā atiricyate tadā dakṣiṇaśrīngam prāk pradṛṣyate,
anyathā uttaram | yadā punar višeṣena na kiñcit antaram tadā yugapat
ubhayaśrīngadarśanam | yadā ca udayajyā candrāgre na bhavataḥ
tadā ca astamaye candramasaḥ astalagnajyayā candrāgrayā ca śrīgasya prāk paścāt
vā astamayam parikalpanīyam |

[candrasya sitāsitahetuḥ]

evam candramasaḥ sitāsitaśrīgonnatidarśanakālādayaḥ savitṛvaśāt eva | evam ca
nirukte paṭhyate ā

tasya ekau raśmiḥ candramasam prati dīpyate |

na hi tena upekṣitavyam | ādityataḥ asya dīptih bhavati |

suṣumṇaḥ sūryaraśmicandramāḥ gandharvah |

[vājasaneyasamhitā, aī 18, mamí 40; taittirīyasamhitā, 3.4.7.1]

iti api ca nigamaḥ bhavati iti | tasmāt etena eva liṅgena candramārgāt upari
sūryamārgaḥ iti, anyathā anupapatyā | pariśiṣṭāḥ ca tārāgrahāḥ sūryamārgāt upari
dūreṇa vyavasthitāḥ | tena teṣām ārātsthitāni golārdhāni sarvadā sakalāni eva cakāsate
| ūrdhvamukhāḥ sūryamarīcayaḥ sadā ārādbhāgam prakāśayanti iti | budhaśukrayoḥ ca
pratyāsannavartitvāt sarvataḥ bimbam avagāhante arkamarīcayaḥ
pradīpapratyāsannagolavat tena tayoḥ api asakalabimbatābhāvah | yadi
evam astamite savitari katham ete grahādayaḥ cakāsate savitṛkarābhāvāt ? na eṣaḥ
doṣaḥ | bhūmeḥ dūreṇa sūryamārgaḥ | tena uparimukhānām sūryamarīcīnām na
vyavadhānāya bhūḥ vartate | yathā ghaṭasya upari adhaḥ dūreṇa avasthitasya
pradīpasya ghaṭaḥ na vyavadhānakāraṇam | kṛṣṇapakṣapratipadādiṣu candramasāḥ
bimbapūrvabhāgaḥ pratyāsannaḥ savituh iti tena tat śuklam upalabhyate | ratnānām ca
ādityakarāḥ eva dīptikāraṇatvam prapadyate | tena tāni
api rātrau na prakāśātmakāni | uktam ca ratnaparīkṣāyām ā

bhānoḥ ca bhāsām anuvedhayogam āśādyā raśmiprakareṇa dūram |
pārśvāṇi sarvāṇi anurañjayanti gunaiḥ upetāḥ sphatik[ādayaḥ hi] ||

[yat] upākhyānādiṣu ratnāni eva dhvāntam dhvāṁsayanti iti śrūyate tat upākhyāna[m
arthavādāmātra]m eva |

anye punar anyathā manyante ā

svacchāyayā arkasāmīpyāt vikalendusamīkṣaṇam |

iti | svacchāyayā candraḥ śuklaḥ upalabhyate, tasya śuklaśya candramasaḥ
savitṛsannikarsāt vaivarṇyam bhavati iti | kutaḥ etat? yadi svabhāvataḥ śuklaśya
candramasaḥ sūryasannikarsāt vaivarṇyam syāt tadā śuklapratipadādiṣu candrasya
aparabhāgaḥ vivarṇaḥ syāt sūryasannikarsāt, na pūrvabhāgaḥ | tathā ca avāñmukham
candrabimbam upalakṣyate | tasmāt mithyājñānam eva etat yat saugataih ucyate || 5 ||

[bhūgolasamsthānam]

bhādikakṣyābhūsamsthānapradarśanāya āha ā

vṛttabhabañjaramadhye kakṣyāpariveṣṭitah khamadhyagataḥ |
mrjjalaśikhivāyumayaḥ bhūgolaḥ sarvataḥ vṛttah || 5 ||

bhāni jyotiṣṭhi naksatrāṇi | teṣām bhānām pañjaraḥ bhapañjaraḥ | yasmāt [bhāni]
samantataḥ viyati pañjarasthāni iva lakṣyante tataḥ anena darśanena etat uktam | vṛttah
ca asau bhapañjaraḥ ca vṛttabhabañjaraḥ | vṛttabhabañjaramadhyam, madhyam antaḥ,
tasya vṛttabhabañjarasya | tatra vṛttabhabañjaramadhye | kakṣyāpariveṣṭitah
kakṣyābhīḥ grahāṇām pariveṣṭitah kakṣyāpariveṣṭitah | khamadhyagataḥ, kham
ākāśam, tasya madhyam khamadhyam, khamadhyamgataḥ
khamadhyagataḥ, ākāśamadhyasthaḥ iti yāvat | katham ākāśamadhye nirālambanā
bhūḥ avatiṣṭhate? [ucyate ā svabhāva]prādhānyāt; yathā salilāgnivāyavaḥ
kledadahanapreraṇātmakāḥ, na teṣām anyaḥ asti kaścit
kledadahanapreraṇaprayojakaḥ, evam iyam api bhūḥ dhāraṇātmikā, na ca
dhāryamāṇātmikā | athavā patantī bhūḥ, "patatu adhah" iti āha | atha kim idam adhah
nāma | yathā asmadīyānām pṛthivī adhah, evam pṛthivīyāḥ kim adhah? "adhah"-śabdaḥ

ca digvācī,

diśah ca vyavasthāpekṣayā bhavanti | yathā yatra vivasvān udeti sā prācī, yatra astam
eti sā parā, yasyām adṛsyah gacchatī sā uttarā, śesā dakṣinā | āsām antarāleṣu eva
vidiśah | evam upari adhah ca pṛthivī apekṣayā bhavataḥ | tena tasyāḥ pṛthivyāḥ na
kiñcit upari, na adhah, tasmāt patanābhāvah bhuvah | evam ca pṛthivyāḥ ardham
pariveṣṭyā avasthitah samudrah na patiti | patantyām ca bhuvi loṣṭaśilīmukhādayah
viyati kṣiptā na bhuvam āsādayeyuh | bhūḥ mandam
patati iti cet, sādhyate ca etat māyāvidbhiḥ ca, viyati khātakīlakah anāśrayah bhavet |
atha anye manyante ā śeṣeṇa anyena [vā] bhūḥ dhriyate iti | tat uktam | śeṣādīnām api
avaśyam ādhāraviśeṣah kaścit kalpanīyah, [taya anyah ā]dhārah syā[t tasya api anyah]
iti anavasthā | atha te svaśaktyā eva avatiṣṭhante iti cet, bhuvah eva kasmāt sā śaktih
na parikalpyate | tasmāt jagataḥ dharmādharmapekṣayā sarvabhūtadhātrī bhūḥ niścalā
ākāśe tiṣṭhati | mrjjalaśikhivāyumayah
bhūgolah, pratyakṣam yataḥ upalabhyate | sarvataḥ vṛttah | mṛdādinā kāṣṭhādinā vā
ayahśalākāyām madhye samavṛttavat avagantavyah | asya bahiḥ candrādīnām kakṣyāḥ
darśayitavyāḥ || 6 ||
[bhūgolapṛṣṭhe prāṇīnām sthitih]

bhūgolapradarśanāya āha ā

yadvat kadambapuṣpagranthih pracitah samantataḥ kusumaiḥ |
tadvat hi sarvasattvaiḥ jalajaiḥ sthalajaiḥ ca bhūgolah || 7 ||

yadvat kadambapuṣpagranthih [samantāt kesaraiḥ] pracitah, vyāptah iti arthah, tathā
ayam bhūgolah samantāt jalajaiḥ sthalajaiḥ ca prāṇibhiḥ āvṛttah | atha ye bhuvi
vyavasthitah prāṇinah parvatādayah teṣām katham avasthānam tat ucyate ā yatra yatra
prāṇinah gacchanti tatra tatra teṣām bhūḥ eva adhah, viyat upari pratibhāti yathā

asmākam || 7 ||

[bhuvah vṛddhyapacayau]

bhūvṛddhyapacayajñānāya āha ā

brahmadivasena bhūmerupariṣṭāt yojanam bhavati vṛddhiḥ |
dinatulyayā ekarātryā mṛdupacitāyāḥ bhavati hāniḥ || 8 ||

trṇakāṣṭhabhasmādirūpeṇa vidyamānāyāḥ [bhuvah] yojanavṛddhiḥ bhavati | atah eva
gr̥hapādapataḍāgādikhātesu ghaṭapiṭakādi upari upari avayavāḥ labhyante |

dinatulyayā ekarātryā brahmadivasatulyayā rātryā | mṛdupacitāyāḥ bhavati hāniḥ | mṛdā
upacitā mṛdupacitā, tasyāḥ mṛdupacitāyāḥ hāniḥ bhavati | kena punar kāraṇena yat
upacitam buvah tat parikṣīyate? brahmadivasāvasāne kila saṃvartakābhidhānaiḥ
jaladharaiḥ vicchinnadhārābhimuktena payasā yat upacitam bhuvah tat parikṣīyate || 8 ||

[bhūpramāṇam]

bhūbhramaṇavācakapūrvottarapakṣapratipādanāya āha ā

anulomagatiḥ nausthah paśyati acalam vilomagam yadvat |
acalāni bhāni tadvat samapaścimāni laṅkāyām || 9 ||

anulomagatiḥ nausthah, kaścit anulomagatiḥ nausthah, paśyati acalam, na calam
vastugatyā api sthiram, vilomagam yathā paśyati saritsāgarobhayataṭasthitam
vṛkṣadikam, [tathā eva] ca bhūmau prāṇmukham bhramatyām upari[sthitāḥ janāḥ]

nab hasthitāni acalāni bhāni prati loma gāni apar a gāni paśyanti | tathā hi laṅkāsthāḥ
bhāni samapaścimāgāni paśyanti | laṅkā upalakṣaṇamātram | evam anye api paśyanti |
tasmāt iyam bhūḥ eva prāṇmukham bhramati
| niścalam jyotiścakram | bhūgatyā taduparisthitah yaḥ bhacakra pradeśah purastāt sa
udayan iva ca lakṣyate, yaḥ tu madhye sa gaganamadhyasthitah iva, yaḥ hi dūreṇa saḥ
astam gacchan iva lakṣyate | anyathā hi niścalasya bhacakra sya udayāstāsambhavaḥ
syāt |

idam asya ādarśanam | bhūmaṇḍale bhramati [sati] jagat jaladhinā āplāvet,
bhūgolavegajanita prabhañjanena ākṣiptāḥ taruśikharaprāsādādayah viśīryeran |
pakṣināḥ api viyati utpatan na svanīḍam āsādayeyuh | tasmāt dharitrībhramaṇe na
kiñcit liṅgam asti | tasmāt anyathā vyākhyeyam sūtram | yathā anulomagatiḥ nausthaḥ
puruṣaḥ calavastūni vilomagam paśyati, evam bhāni calāni pravahānilākṣiptāni
vegavaśāt laṅkāyām yāni vastūni tāni prati loma gāni
paśyanti; adhovya vasthitām bhuvam niścalām bhramantīm iva paśyanti | pratyakṣe api
nakṣatrāṇi prāguditāni aparām diśam āsādayanti || 9 ||

[bhūbhramaṇakāraṇam]

bhramaṇakāraṇam āha ā

udayāstamaya nimi ttam nityam pravahēṇa vāyunā kṣiptah |
laṅkā samapaścimāgah bhapañjaraḥ sagrahaḥ bhramati || 10 ||

udayaḥ ca astamayaḥ ca [udayāstamaya | tayoḥ] udayāstamaya yoḥ nimi ttam nityam
pravahēṇa pravaha samjñitena vāyunā kṣiptah bhapañjaraḥ, bhapañjaraḥ api nityagatiḥ
eva, laṅkāyām samapaścimāḥ yaḥ dikpradeśah sa laṅkā samapaścimāḥ, tam gacchati

iti laṅkāsamapaścimagaḥ, saha grahaiḥ vartate iti sagrahah, bhramati kṣaṇam api na
avatiṣṭhate |

yadi api grahāḥ prāṇmukham vrajanti tathā api bhapañjarāpekṣayā
aparadiksaṅkramaṇam kurvanti, mahatā bhapañjaragatyā nīyamānāḥ lakṣyante,
kulālacakrasthāḥ kīṭāḥ iva || 10 ||

[meruvarṇanam]

merupramāṇam āha ā
meruḥ yojanamātrah prabhākaraḥ himavatā parikṣiptah |
nandanavanasya madhye ratnamayah sarvataḥ vṛttah || 11 ||

yojanam mātrā yasya sa yojanamātrah, pramāṇe mātranpratyayah | prabhākaraḥ,
prabhām karoti iti prabhākaraḥ | [himavatā parikṣiptah], himavatā parvataḥ samantāt
veṣṭitah | [nandanavanasya madhye], nandanam vanam [devānām
apsaroganaparivṛtānām] kṛdāsthānam, tasya madhye | ratnamayah | ratnāni
[suvarṇarajata]muktāpravālapadmarāgamarakataprabhṛtīni, taiḥ nirmitah ratnamayah |
[sarvataḥ] samantāt | vṛttah golakākāraḥ iti arthaḥ |

atha paurāṇikaiḥ lakṣayojanapramāṇah meruḥ paṭhyate tat yuktirahitam | [laṅkātah
yāvat merumadhyam tāvat yojanasahasram api na asti, kutah tat ekadeśe bhaviṣyati |
atha bhūḥ eva mahāpramāṇā parikalpyate, tat ayuktam] yat sapañcāśatsahasram
yojanānām bhūvyāsāmanam akṣonnatiprasādhitam tat sopapattikam |
grahodayāstamayamadhyāhnicchāyāvanatilambanādibhiḥ siddham utsrjya kim anyat
upalabhyate |

kim ca purāneṣu puṣkaradvīpasya uparigataḥ vivasvān madhyāhnām karoti iti paṭhyate
| lakṣayojanānām kila jambūdvīpah, [tataḥ dviguṇottarāḥ] samudrāḥ [dvīpāḥ ca] sapta,
saptamah ca puṣkaradvīpah | tat anekaiḥ yojanasahasraiḥ antaraiḥ vyavasthitam | tatra
yadi madhyāhnāḥ vivasvataḥ syāt asmākam uttaragolabhūtavat̄ śaṅkoh chāyānāśah
[na] syāt | dṛṣyate tacchāyānāśah | tasmāt viṣuvati laṅkāmadhye savitā gacchati iti
siddham | [viṣuvati laṅkāmadhye
na savitā gacchati iti taiḥ eva uktam | tat ca atidūratvāt na ghaṭate | yadi pataṅgavat
utplutya gacchati tataḥ yujyate | tat ca aśakyam parikalpayitum, pratyakṣaviruddhatvāt |] tasmāt dhruvonnatyā [ānītam eva] bhuvaḥ pramāṇam siddham | tatra mahāpramāṇasya
meroh avasthānam eva na asti |

[yadi kathañcit mahāpramāṇah eva meruh avatiṣṭhate tadā sa kim asmābhiḥ na dṛṣyate
|] dūratvāt meruh asmābhiḥ na dṛṣyate, athavā niṣprabhatvāt tat na dṛṣyate, na tarhi
ratnamayah | kim ca yadi mahāpramāṇah meruh syāt meruśikharāntaritatvāt bhāvāt
uttareṇa tārakāḥ na dṛṣyeran | tasmāt tasya kanakagireḥ upariśikharapradeśe eva
sarvaratnamayah meruśabdena ucyate || 11 ||

[merubāḍavāmukhayoh sthitī]

kva bhūpradeśe meruh, kva vā bāḍavāmukham iti āha ā

svaḥ merū sthalamadhye narakah bāḍavāmukham ca jalāmadhye |
amaramarāḥ manyante parasparam adhaḥsthitāḥ niyatam || 12 ||

svaḥ svargopalakṣitah, meruh ca, sthalamadhye | narakah bāḍavāmukham ca
jalāmadhye | amaramarāḥ amarāḥ devāḥ, marāḥ narakasthāḥ, te parasparam
adhaḥsthitāḥ manyante | yataḥ sarveśām bhūḥ adhaḥ, ataḥ anyonyam adhaḥsthitāḥ

manyante | yatra uttareṇa ayaḥśalākā bhuvam bhītvā nirgatā tatra pradeśe svargah
meruḥ, yatra daksīṇena nirgatā tatra narakah baḍavāmukham ca || 12 ||

[udayādīvyavasthā]

prakṛṣṭadeśāntaravyavasthitān deśān āha ā

udayaḥ yaḥ laṅkāyām saḥ astamayaḥ savituh eva siddhapure |
madhyāhnah yamakoṭyām romakaviṣaye ardharātrah syāt || 13 ||

laṅkānivāsinām yaḥ udayaḥ sa eva siddhapuranivāsinām astamayaḥ, [yataḥ
laṅkāpradeśāt adhaḥ vyavasthitam siddhapuram] | madhyāhnah yamakoṭyām, yaḥ eva
laṅkāpuranivāsinām udayaḥ sa eva yamakoṭinivāsinām madhyāhnah, yataḥ
laṅkāpradeśāt pūrvasyām bhūparidhicaturbhāge yamakoṭih | yaḥ laṅkānivāsinām
udayaḥ sa romakanivāsinām ardharātrah, yataḥ laṅkātah aparabhāge
bhūparidhicaturbhāge romakam | evam ete bhūcaturthabhāg[āntarāla]vyavasthitāḥ
sthala jalasandhivartinah deśāḥ parasparam
ahorātracaturbhāgakāladeśāntarapramāṇāḥ pradarśayitavyāḥ || 13 ||

[samarekhāsthānagaryau]

deśāntarapradarśanārtham āha ā

sthala jalāmadhyāt laṅkā bhūkakṣyāyāḥ bhavet caturbhāge |
ujjayinī laṅkāyāḥ taccaturamśe samottarataḥ || 14 ||

sthala madhyāt meroḥ ārabhya jalāmadhyāt ca baḍavāmukhāt laṅkā bhūkakṣyāyāḥ

caturthabhāge vyavasthitā | bhūparidhiḥ

3298

17

25, caturbhāgaḥ

824

67

100 | etāvati antare vyavasthitā | ujjayinī sthalajalasandhivartilaṅkāyāḥ samottare
digbhāge vyavasthitā | taccaturamśe, tasya bhūcaturthabhāgasya caturthabhāge |
bhūparidheḥ śoḍāśabhāgaḥ

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400 | etāvati antare laṅkātaḥ ujjayinī |

laṅkojjayinīsamadakṣiṇottararekhāyām vātsyagulmacakorapuraprabhr̥tīni sthānāni

vyavasthitāni | ujjayinyāḥ uttareṇa

daśapuramālavanagaracatṭaśivasthāneśvaraprabhr̥tīni yāvat meruḥ iti |

sarve grahāḥ karaṇāgatāḥ bhūmadhyasamadakṣiṇottararekhāyām bhavanti |

pūrvabhāgavyavasthitāḥ prathamataram eva ravim paśyanti, ataḥ deśāntaraphalam
apanīyate | paścimabhāge [vyavasthitāḥ] cireṇa paśyanti, ataḥ tatra deśāntaraphalam
kṣipyate | svadeśākṣasamarekhākṣavivarabhāgaiḥ trairāśikam ā yadi cakrāṁśakaiḥ
bhūparidhiyojanāni labhyante

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17

25,

tadā akṣāṁśāvivarabhāgaiḥ kim iti, samadakṣiṇottararekhāntarālayojanāni bhavanti
kotyātmakāni | svadeśasthānataḥ tiryagvyavasthitojjayinyādīsthānam | tasya

antarālayojanāni lokāt avagatāni karṇah | karṇakotivargaviśeṣamūlam bhujayojanāni |
tataḥ yadi vyāsārdhatulyāvalambake[na bhūparidhiḥ tadā iṣṭāvalambakena kā iti,
spaṣṭabhūparidhiḥ | punar yadi] spaṣṭabhūparidhiṇā grahabhuktiḥ labhyate
deśāntarayojanaiḥ kā bhuktiḥ iti deśāntarphalam labhyate | pūrvavat
dhanam ḥnam iti || 14 ||

[bhagolasya dṛṣyādṛṣyabhāgau]

bhagoladr̄ṣyādṛṣyajñāpanāya āha ā

bhūvyāsārdhena ūnam dṛṣyam deśāt samāt bhagolārdham |
ardham bhūmicchannam bhūvyāsārdhādhikam ca eva || 15 ||

bhuvaḥ vyāsaḥ bhūvyāsaḥ tasya ardham bhūvyāsārdham, 525 | tena ūnam
bhagolārdham dṛṣyam upalabhyate | kasmāt? samāt deśāt | anantaritah samah,
mahādr̄idrumādyunnatapadārtharahitah deśah samah iti | ardham bhūmicchannam na
dṛṣyate bhūvyāsārdhena adhikam adṛṣyam |

etat jijñāsuḥ bhūgolapṛṣṭhāvagāhi sūtram prasārya pūrvakṣitije aparakṣitije [ca]
badhnīyāt | bhūpṛṣṭhasthitasya draṣṭuh prasāritasūtrānusāriṇī dṛṣṭih yāti | tatra
[pūrva]pradeśe jyotiṁsi ardhoditāni paśyati, paścāt ardhāstamitāni [paścati] | evam
bhūvyāsārdhena ūnam [golārdham] golasūtrāntarālasthitam dṛṣyam | yat etat adṛṣyam
golārdham golasūtrāntarālam tat bhūvyāsārdhādhikam | etat samāyām bhuvi | yaḥ
punar draṣṭā tumgaśailamastake bhavati tat
śailapramāṇādhikam tasya adṛṣyam bhavati | vidyādharādayaḥ viyati dūre sthitāḥ
prabhūtam jyotiścakram paśyanti, [yasmāt] upari dūrasthitasya nirvirodhaprasāraṇā
dṛṣṭih bhavati | atidūre sthitāḥ brahmā sarvadā vivasvantam paśyati |

[bhūpr̥ṣṭhavyavasthitānām bhūvyāsārdhonabhapañjarārdhadarśinām svāt pramāṇāt
satatam divasah hīyate, niśā vardhate | tadartham] traīrāśikam ā yadi ravikakṣyāyām
śaṣṭih nādyah labhyante tadā bhūvyāsārdhayojanaiḥ 525 kiyatyah | labdhena
dviguṇena sarvadā hīnah divasah adhikā rātriḥ || 15 ||

[meruvaḍavāmukhasthānām bhagolabhramaṇadarśanam]

merubaḍavāmukhanivāsinām darśanārtham āha ā

devāḥ paśyanti bhagolārdham udān merusamsthitāḥ savyam |
ardham tu apasavyagatam dakṣiṇabaḍavāmukhe pretāḥ || 16 ||

[udān merusthitāḥ devāḥ bhagolasya uttaram] ardham savyam pradakṣiṇagatim
paśyanti | dvitīyam ardham dakṣiṇam jyotiścakrasya apasavyam apradakṣiṇagatim
baḍavāmukha[sthitāḥ] pretāḥ paśyanti | [sthalajalasandhau sthitvā etat ācāryaḥ
pratipādayati | tat apekṣayā hi merubaḍavāmukhayoh uttaradakṣiṇatvam | na
merubaḍavāmukhasthānām diṇniyamah asti |] sūryagatyapekṣayā prācyādīvyavahāraḥ
| yatra vivasvān udeti sā prācī, [yatra astameti sā pratīcī]
| [na tathā merubaḍavāmukhasthānām api, paritah sarvatra raveḥ
udayāstamayasambhavāt |]

deśāntaravyavadhānāt anyathā bhacakrārdhadarśanam bhavati | kaścit puruṣah
uttareṇa gataḥ deśāntaram eti tathātve dhruvam upari ārohitam paśyati, krameṇa
merum prāptasya upari dhruvah bhavati | meroḥ uttareṇa dakṣiṇena dhruvah
avalambate | etat uttarāyahśalākāgrasvastikam upari nidhāya
dakṣiṇāyahśalākāgrasvastikam ca adhomukham nidhāya darśayet | tathā laṅkāsthasya

yah višuvat mārgapradeśah pūrvāparah pratibhāsate sa merusthānām kṣitijāsaktah
| evam baḍavāmukhasthānām api cakravat bhāskaraḥ pratibhāsate || 16 ||

[devāsurapitṛnarāṇām dinapramāṇam]

merubaḍavāmukhasthāḥ kiyantam kālam ravim paśyanti iti āha ā

ravivarṣārdham devāḥ paśyanti uditam ravim tathā pretāḥ |
śaśimāśārdham pitaraḥ śaśigāḥ, kudinārdham iha manujāḥ || 17 ||

devāḥ merunivāśinah meṣādiṣu ṣaṭsu rāsiṣu samudgatam sūryam ravivarṣārdham
paśyanti ṣaṇmāsān yāvat iti arthah, pradakṣiṇam cakravat bhramantam kṣitijāsaktam
krameṇa caturviṁśatikrāntibhāgān yāvat parityaktakṣitijam paśyanti | evam pretāḥ api
ravivarṣārdham eva sakṛt udgatam sūryam paśyanti dakṣiṇagole ṣaṭsu rāsiṣu |

śaśimāśārdham pitaraḥ śaśigāḥ, śaśinam gacchanti iti śaśigāḥ, candralokanivāśinah
pitaraḥ śaśinah māśārdham pañcadaśatīthayah etāvantam kālam paśyanti | pitṛṇām
amāvāsyāyām upari savitā bhavati | [tat] teṣām aharmadhyam | tataḥ yathā yathā savitā
pratipadādiṣu parataḥ avalambate tathā tathā pitṛṇām madhyāhnottarabhāgah,
rāśitrayāntaritah astam eti, astamitah pakṣeṇa rāsiṣadantitaritah prācyām udeti | atah
teṣām pakṣah ahah, pakṣah rātrih iti
| kudinārdham iha manujāḥ | kudinam bhūdinam ravyudayāt ravyudayam yāvat,
tadardham iha manujāḥ paśyanti | sarvam yathāvat sthitam gole pradarśayet iti || 17 ||

[khagole kṣitijamaṇḍalam]

khagole kṣitijamaṇḍalapradarśanāya āha ā

pūrvāparam adhaūrdhvam maṇḍalam atha dakṣiṇottaram ca eva |
kṣitijam samapārśvastham bhānām yatra udayāstamayau || 18 ||

pūrvāparamaṇḍalam tat iha khagolapramāṇam | sa eva ūrdhvam uparyadhovergāhi
sarvabhabaṇjarāṇām | tathā dakṣiṇottaram anyat maṇḍalam tāvatpramāṇam,
dakṣiṇottarāvagāhi yāmya uttaramaṇḍalam upari adhaḥ ca janitasvastikam | kṣitijam
samapārśvastham tathā anyat maṇḍalam tāvat eva | samapārśvāvagāhi parikaravat
dikcatuṣṭayajanitasvastikam kṣitija iti ucyate | bhānām yatra udayāstamayau | yatra
maṇḍale bhānām udayāstamayau lakṣyete | harijam
iti kaiścit ucyate | ayam khagolah sarvabhabaṇjarāṇām bahiḥ avatiṣṭhate || 18 ||

[unmaṇḍalam]

unmaṇḍalapradarśanāya āha ā

pūrvāparadiglagnam kṣitijāt akṣāgrayoḥ ca lagnam yat |
unmaṇḍalam bhavet tat kṣayavṛddhī yatra divasaniśoḥ || 19 ||

dakṣiṇottarakṣitijasvastikāt yāmya uttaramaṇḍale svadeśākṣabhbāgatulye antare vedhe
kṛtvā lohaśalākāgre praveśya golam nidadhīyat | tataḥ unmaṇḍalam darśayet |
pūrvāparadiglagnam pūrvāparayoh diśoḥ lagnam | kṣitijāt akṣāgrayoḥ ca lagnam yat |
dakṣiṇottarakṣitijasvastikayoh upari adhaḥ svadeśākṣabhbāgatulye antare lagnam
kārayet | tat unmaṇḍalam | udayamaṇḍalam unmaṇḍalam | yatra maṇḍale divasasya
rātreḥ ca kṣayavṛddhī lakṣyete |

viśuvati unmaṇḍalakṣitijayoḥ ekatvāt divasaniśoḥ kṣayavṛddhī na stah | viśuvataḥ

uttareṇa unmaṇḍalam upari kṣitijam adhah avatiṣṭhate | tasmāt uttaragole aprāpte eva unmaṇḍalam [savitā] caradalaghaṭikāpramāṇena udeti | paścāt unmaṇḍalam atikrāntah astam eti | ataḥ divasah uttaragole vardhate | dakṣiṇagole unmaṇḍalam atikrāntah kṣitijāt udeti | aprāptaḥ eva astameti | ataḥ dakṣiṇagole rātrih upacīyate | ataḥ tattulyā divasaniśoh kṣayavṛddhī | tadartham

trairāśikam ā yadi ṣaṣṭyā grahabhuktiḥ labhyate, tadā caradalaghaṭikābhiḥ kiyatī iti | labdham uttaragole ravau udaye viśodhayet | yāmye viparītam | evam uttaradiśi vyavasthitānām krameṇa divasaniśoh mahatyau kṣayavṛddhī bhavataḥ | yatra deśe raviḥ mithunāntasthaḥ na astam eti, ṣaṣṭih nādyah divasah, tatra trimśadghaṭikāḥ caram, pañcadaśaṅghaṭikāḥ carārdham | tasya kāṣṭhasya jyā carajyā | tayā viparītakarmanā kṣitijyā ānīyate ā yadi vyāsārdhasya iyam [vyāsārdhatulyā] carajyā tadā mithunāntasvāhorātrārdhasya kā iti mithunāntasvāhorātrārdhatulyā kṣitijyā labhyate | tasyāḥ kṣitijyāyāḥ mithunāntāpakramajyāyāḥ ca vargayuteḥ mūlam arkāgrā trijyātulyā | tena tatra deśe yāmya uttare kṣitijāt upari krameṇa [sama]maṇḍalam avagāhya khamadhyāt dakṣiṇena dvicatvāriṁśadbhāge [yāmya uttaram atikramya] tataḥ prathamodaye punar kṣitijam āpnoti ca eva | tatra ṣaṣṭih nādyah divasah upalakṣyate | svārkāgrataḥ [kṣitijyā | tadartham trairāśikam]

ā arkāgrayā iṣṭatulyayā kṣitijyā labhyate vyāsārdhena kim iti | guṇakabhājakyoh tulyatvāt naṣṭayoh kṣitijyāpramāṇā akṣajyā bhavati | tat katham? akṣah ṣaṭṣaṭibhāgāḥ | tatra deśe vyabhicārāt grahagatiḥ | uttareṇa tasmāt iyam vyavasthā na asti iti || 19 ||

[khagolāpekṣayā draṣṭuh sthitih]

prācyādivyavasthāpratipādanāya āha ā

pūrvāparadigrehā adhah ca ūrdhvā dakṣiṇottarasthā ca |
etāsām sampātaḥ draṣṭā yasmin bhavet deśe || 20 ||

pūrvāpararekhā, adhaḥ ca ūrdhvā ca yā rekhā, dakṣiṇottarasthā ca | ca[kārah]
samuccaye | etāsām rekhāṇām sampātaḥ ekatra yogah, yasmin deśe draṣṭā tatra tatra
tāsām sampātaḥ |

tasmāt draṣṭravaśāt digvyavasthā | yatra draṣṭā ravim udgacchan paśyati sā prācī, yatra
[ravīḥ] madhyāhnām karoti sā dakṣiṇā, yatra astam eti sā parā, yatra ardharātram karoti
sā uttarā | sarveśām uttarah meruh | laṅkānivāsinām yadā madhyāhne raviḥ bhavati
romakanivāsinām udeti | tatra laṅkāpradeśe teśām prācī | tadapekṣayā svasthānāt
uttarah meruh pratibhāsate | yadā romake madhyāhnah tadā siddhapuranivāsinām
udayah [tatra romakapradeśe
teśām prācī] | tadapekṣayā teśām svasthānāt uttarah meruh | evam yamakoṭyām api |

bhūmau yāvattāvatpramāṇam vṛttam ālikhya pūrvāhne [aparāhne ca] chāyām lakṣayet |
yatra pradeśe śaṅkucchāyā vṛttam praviśati sā paścimā | yatra niryāti sā prācī |
tadagrayoh matsyam utpādya tanmukhapucchaspṛksūtram prasārayet | sā dakṣiṇottarā
dig bhavati | athavā tricchāyāgramatsyadvayamukhapucchaspṛksūtradvayasampātaḥ
uttarā dakṣiṇā ca | [athavā dik] prasādhanīyā citrāsvātyoh || 20 ||

[dṛṇmaṇḍalam dṛkkṣepamaṇḍalam ca]

[dṛṇmaṇḍaladṛkkṣepamaṇḍalasvarūpam āha ā]

ūrdhvam adhastāt draṣṭuh jñeyam dṛṇmaṇḍalam grahābhimukham |
dṛkkṣepamaṇḍalam api prāglagnam syāt trirāsyūnam || 21 ||

dṛṇmaṇḍalam [draṣṭuh ūrdhvam adhastāt] grahābhimukham [bhavati] | yatra draṣṭā

bhavati tatra asya madhyam, yatra grahaḥ tatra asya paridhiḥ, yāvān ḍṛggrahayoh
antaram tāvatā viśkambhārdhena ḍṛīmaṇḍalam pradṛśyam | tat eva madhyāhnasthite
grahe ḍṛkkṣepamaṇḍalam bhavati | ḍṛkkṣepamaṇḍalam api | samamaṇḍalamadhyāt
dakṣiṇena uttareṇa vā yatra grahābhimukham ḍṛṣṭeh kṣepaḥ tatra yaḥ
mahāpramāṇakakṣyah grahaḥ sa stokataram kṣipyate,
alpapramāṇakakṣyah bahutaram kṣipyate iti | etat madhyāhne
ḍṛgjyāpramāṇavyāsārdhena samamaṇḍalamadhyāt badhnīyāt | asya ānayanopāyah ā
prāglagnam syāt trirāsyūnam | parvakālaghaṭikāḥ pūrvāhne dinārdhāt śodhayet |
śeṣaprāṇān trairāśikānītaravibhuktalaṅkodayaprāṇaiḥ ūnīkuryāt | śeṣebhyāḥ yāvat
laṅkodayaprāṇāḥ śudhyanti tāvat śodhyāḥ | tānvantaḥ eva rāśayaḥ viśodhyante |
śeṣaprāṇān trimśatā guṇayet, aśuddhalaṅkodayena vibhajet, labdham bhāgādi
pūrvaviśodhitaiḥ eva śodhayet | pūrvāhne madhyalagnam bhavati | aparāhne adhikatvāt
raveḥ yāvantaḥ laṅkodayāḥ viśudhyanti tāvantaḥ prakṣipya lagnam kriyate | ācāryeṇa
sthūlaprakṛtyā iṣṭaghaṭikābhiḥ pūrvalagnam lagnavidhinā kṛtvā trirāsyūnam kriyate,
madhyalagnam bhavati iti | rāśayaḥ laṅkodayaiḥ madhyam avagāhante iti laṅkodayaiḥ
yat madhyalagnam tat sūkṣmam iti | tasya apakramakāṣṭham svadeśākṣabhbāgayutam
samadiśoh bhinnadiśoh viśuddham
khamadhyaravikakṣyāntarālam bhavati | tasya jīvā madhyajyā iti ucyate | candrasya
apakramakāṣṭham vikṣepayutam viyutam kriyate | yataḥ vimaṇḍale candraḥ tataḥ
akṣabhbāgayutaviyutasya jyā candramadhyajyā bhavati | anayā atra madhyajyā
vyākhyātā || 21 ||

[svayaṁvahagolayantram]

svayaṁvahagolayantrapratipādanāya āha ā

kāṣṭhamayam samavṛttam samantataḥ samagurum laghum golam |

pāratatailajalaiḥ tam bhramayet svadhiyā ca kālasamam || 22 ||

kāṣṭhaiḥ nirmitam kāṣṭhamayam śrīparṇyādibhiḥ pūrvavat | samavṛttam | sarveṣu
pradešeṣu [samam], na hīnādhikam iti | samagurum | samantataḥ samā gurutā kāryā |
yadi atimātraguruḥ bhavati pāṣāṇavat niścalah syāt, [mahatā kālena bhramati iti atah]
samavṛttam samagurum | laghum atra api samaśabdaḥ prayuktavyaḥ | etat
guṇaviśiṣṭam golam katham bhramayet? pāratatailajalaiḥ iti | svadhiyā ca
svakīyaprajñayā ca tam bhramayet | kālasamam kālena
samam kālasamam | kālasamam ahorātrasamam yathā bhramati tathā bhramayet | tat
yathā ā ṣaṣṭīgaṭīkāṅkitasvāhorātramaṇḍale kanyātulāsandhipradeśe kīlakam īṣat
unnatam ekam kārayet | siddhapūrvāparadakṣiṇottarasthāne jalapātram ekam
sthāpayet | pātram ca samam vattam dīrgham [tala]madhyanihitasūkṣmacchidram
ghaṭīkāṣaṣṭyā jalapūrṇam yathā riktam bhavati tathā svadhiyā prasādhyā tataḥ karma
kriyate | yāvat pātrāt udakam sravati tāvat gurutvāt
alābuḥ jalavaśāt adhogacchan golam ākarṣati | evam sakṛt yuktaḥ golah
paramārthabhabhagolavat ahorātre bhramati | prathamam tāmrakīlakē pāśakasūtrasya
ekam agram badhvā golayantram adhastāt prabhṛti parivesṭya tatra eva pradeśe sūtram
prāpayet iti kramah || 22 ||

[akṣakṣetram]

viṣuvat jyāpradeśapratiṣṭānāya āha ā

dṛggolārdhakapāle jyārdhena vikalpayet bhagolārdham |
viṣujīvākṣabhujaḥ tasyāḥ tu avalambakah koṭih || 23 ||

dṛggolārdham ghaṭakapālavat avasthitatvāt dṛggolārdhakapālam | bhagolārdham eva

kevalam dr̄syate | yena vyavahārah̄ dr̄syah̄ | bhagolārdham jātau ekavacanam |
jyārdhena vikalpayet | bhūmau vṛttam ālikhya pūrvāparadakṣiṇottaradikcihnitam kṛtvā
ekaikasmin caturthabhāge rāśitrayam aṅkayet | punar ekaikah̄ rāśih̄ aṣṭadhā vibhajet |
tatra sūtrāṇi prasārayitavyāni | tāni jyāsūtrāṇi | tadardhāni jyārdhāni | athavā anyāḥ
vikalpakramāḥ | viśuvajīvākṣabhujā
| samamāṇḍalasya viśuvataḥ uttareṇa akṣatulyāntare avasthitatvāt akṣah̄ iti ucyate |
tasya akṣakāṣṭhasya bhujā, akṣajyā viśuvajjyā iti paryāyāḥ | vyāsārdham karṇaḥ |
bhujākarṇakṛtiviśeṣamūlam avalambakah̄ | sā koṭih̄ iti | etat gole pradarśayet |
samamāṇḍalamadhyāt dakṣiṇena ākṣajyātulye antare sūtrasya ekam agram badhvā
graham prāpayet | saḥ avalambakah̄ | bhujākoṭivargayogasya mūlam karṇaḥ
vyāsārdham iti | evam anyatra api dṛggolārdhe kalpitajyārdheṣu
bhujākoṭikarṇavyavasthā kalpanīyā || 23 ||

[svāhorātrārdhaviṣkambhaḥ]

apakramādibhiḥ bhujādikalpanām āha ā

iṣṭāpakramavargam vyāsārdhakṛteḥ viśodhya yat mūlam |
viśuvadudagdakṣiṇataḥ tat ahorātrārdhaviṣkambhaḥ || 24 ||

sūryasya iṣṭāpakramajyāyāḥ candrasya iṣṭāpakramajyāyāḥ ca yaḥ vargaḥ sa
iṣṭāpakramavargah̄ | tam vyāsārdhakṛteḥ viśodhya [śeṣasya] yat mūlam tat viśuvataḥ
uttareṇa dakṣiṇena vā ahorātrasya viṣkambhaḥ bhavati | krāntijyā bhujā | vyāsārdham
karṇaḥ | tayoḥ yat vargaviśeṣamūlam tat svāhorātrārdhaviṣkambhaḥ | pūrvavidhinā tat
uttaragole uttareṇa, dakṣiṇagole dakṣiṇena pradarśayet || 24 ||

[meṣādīnām laṅkodayāḥ]

laṅkodayaprāṇānayanam āha ā

iṣṭajyāguṇitam ahorātravyāsārdham eva kāṣṭhāntyam |
svāhorātrārdhahṛtam phalam ajāt laṅkodayaprāgjyāḥ || 25 ||

iṣṭajyā iti meṣavṛṣamithunāntajyāḥ grhyante | etābhiḥ guṇitam ahorātravyāsārdham
svāhorātrārdhaviṣkambhāḥ iti arthaḥ | kāṣṭhasya antaḥ kāṣṭhāntaḥ, tatra bhavam
kāṣṭhāntyam | navatiḥ bhāgāḥ yasmin [kāṣṭhe tasya ante bhavam] yat svahorātrārdham
tat eva [iṣṭa]jyābhiḥ guṇitam svahorātrārdhahṛtam svakīyasvakīyāhorātrārdhahṛtam
phalam iṣṭalaṅkodayaprāgjyāḥ | ajāt meṣāt prabhṛti kāṣṭham bhavati iti kāṣṭhīkriyate |
[mithunānta]prāgjyākāṣṭhāt

vṛṣāntaprāgjyākāṣṭham viśodhayet | śeṣam mithunasya laṅkodayaprāṇāḥ | [evam]
vṛṣāntaprāgjyākāṣṭhāt [meṣāntaprāgjyākāṣṭham viśodhayet | śeṣam vṛṣabhasya
laṅkodayaprāṇāḥ] | svarūpataḥ eva meṣā[laṅko]dayaprāṇāḥ bhavanti || 25 ||

[kṣitijyā]

dinaniśoh kṣayavṛddhipratipādanāya āha ā

iṣṭāpakramaguṇitām akṣajyām lambakena hṛtvā yā |
svāhorātre kṣitijā kṣayavṛddhijyā dinaniśoh sā || 26 ||

iṣṭāpakramena guṇitām iṣṭāpakramaguṇitām | [iṣṭāpakramaguṇitām] akṣajyām
lambakena hṛtvā phalam svāhorātramaṇḍale kṣitijyā bhavati | tatra iṣṭāpakramajyā
kotih, kṣitijyā bhujā, tadvargayutimūlam karṇaḥ arkāgrā bhavati iti |
pūrvāparasvastikayoh arkāgrayoh sūtram badhvā bhujakoṭivāsanā pradarśyā |

ksitijonmandalayoh antaram kṣitijā iti | tayā dinaniśoh kṣayavṛddhī | pūrvakṣitijāt
uparyadhyavasthitonmandala[kṣitijayoh madhye jyā]vat sā
pradarśyate || 26 ||

[svadeśodayāḥ]

rāsyudayakālapratipādanāya āha ā

udayati hi cakrapādah caradalahīnena divasapādena |
prathamah antyah ca atha anyau tatsahitena kramotkramaśah || 27 ||

udayati darśanam yāti, ardhām upari cakrapādah, trayah rāśayah | caradalahīnena
divasapādena iti anena laṅkodayāḥ trayah parigṛhyante | yataḥ tribhīḥ
meśādilaṅkodayaiḥ pañcadaśaṅghāṭikāḥ tāḥ svāhorātracaturthaḥ amśah, tataḥ krameṇa
vyavasthitaṅkodayaprāṇebhyah meśādicaradalaaprāṇān svadeśākṣotpannān svakīyān
viśodhayet | meśādīnām svadeśodayāḥ bhavanti | antyah cakrapādah
mīnakumbhamakarāḥ | ete api caradalahīnena cakrapādena udayanti
| caradalaśahitena divasapādena | atra api divasapādagrahaṇena
karkaṭasimhakanyāyāḥ utkrameṇa laṅkodayāḥ gṛhyante | tena karkaṭasimhakanyāyāḥ
caraprāṇaiḥ utkrameṇa sahitāḥ udayanti | kramotkramaśah iti | kramotkramagatyā
krameṇa caradalahīnāḥ meśavṛṣamithunāḥ, utkrameṇa sahitāḥ karkaṭasimhakanyāḥ |
ete eva utkrameṇa tulāvṛścikadhanūṁsi | tataḥ makarakumbhamīnāḥ utkrameṇa
caradalahīnāḥ | meśavṛṣamithunāḥ krameṇa apamaṇḍale tiryagvyavasthitāḥ,
tena meśah śīghram udeti atah caradalāsubhiḥ apacīyate | evam vṛṣah mithunah ca |
etaiḥ makarādayah vyākhyātāḥ | karkaṭasimhakanyāḥ [tadbhinnasamsthānatvāt cireṇa
udgacchanti | atah caradalaprāṇaiḥ upacīyante | etaiḥ tulādayah vyākhyātāḥ |

ksitijyā vyāsārdhaguṇā svāhorātrārdhahṛtā carajyā, tatkāśṭham caradalaprāṇāḥ | pṛthak
meśādīnām laṅkodayavat utpādyāḥ | svadeśarāśyudayaiḥ iṣṭakālalagnārtham
sūryodayāt prabhṛti ghaṭikāḥ prāṇīkṛtya sūryabhogyarāśyudayaprāṇāḥ tebhyaḥ¹
viśodhayet | sūrye bhogyāṁśam kṣepyam | punar yāvantah rāśyudayāḥ śuddhyanti
tāvantah viśodhya sūrye rāśayah kṣipyante | śeṣam trimśatā guṇitam
asuddhodayabhaktam bhāgādi vardhitaravau kṣipet | lagnam
bhavati | evam rātrau api rātrigataghaṭikāḥ dinamānaghaṭikāsu prakṣipya lagnam anena
vidhinā kartavyam | rātriśeṣaghaṭikābhiḥ viparītakarmanā raveḥ gatabhāgādinā
tadutkrameṇa yāvantah udayaprāṇāḥ viśuddheyuḥ tāvantah śodhanīyāḥ] śeṣam
trimśatā guṇitam vartamānodayabhaktam bhāgādi śodhitam udayalagnam |

atha raveḥ lagnasya ca antarakālasādhanam | raveḥ abhuktabhāgaiḥ abhyudayam
saṃguṇya trimśatā bhajet | labdham raveḥ abhuktaprāṇāḥ | evam lagnabhuktabhāgaiḥ
tadudayam saṃguṇya trimśatā vibhajet | labdham lagnabhuktaprāṇāḥ |
antaraprāṇayuktāḥ ṣadbhiḥ bhaktāḥ vighaṭikāḥ, ṣaṣṭyā ghaṭikāḥ, sūryodayāt ārabhya
bhavanti || 27 ||

[iṣṭakālaśaṅkuḥ]

[iṣṭakālaśaṅkvānayanārtham āha ā]

svāhorātreṣṭajyā kṣitijāt avalambakāhatām kṛtvā |
viṣkambhārdhavibhakte dinasya gataśeṣayoh śaṅkuḥ || 28 ||

[svāhorātre]ṣṭajyānayanam dinagataśeṣaghaṭikābhyah | uttaragole kṣitija[m
unmaṇḍalā]t adhaḥ vyavasthitam ataḥ caradalaghaṭikāḥ [dinagataśeṣaghaṭikābhyah]
viśodhya niśpannāḥ unmaṇḍalāvadheḥ bhavanti | tāḥ prāṇīkṛtya jīvā grāhyā |

caradalajayā saumyetaragolayoh yutaviyutā kṣitijāvadheḥ bhavati | [ataḥ traīrāśikam] ā
yadi vyāsārdhamāṇḍale iyam jyā bhavati svāhorātrārdhamāṇḍale kiyatī iti
kṣitijamāṇḍalāvadheḥ svāhorātreṣṭajyā abhidhīyate |
tām iṣṭajyām avalambakāhṛtām kṛtvā viṣkambhārdhena vyāsārdhena vibhajet |
divasasya pūrvāhne gatasya, aparāhne śeṣasya śaṅkuḥ bhavati |

candraśaṅkvānayanam | rātrau candracchāyā upalakṣayet | tatra pūrvakapāle
candramasaḥ iṣṭakālaghaṭikāḥ, aparakapāle tu candrāstalagnāntarālaghaṭikāḥ
candramasaḥ śeṣaghaṭikāḥ ānīya iṣṭakarma | candraśvāhorātrārdham kṣitijyām
caradalajyām ca ānīya caradalaviparyayaniṣpannprāṇaiḥ sūryavat karma kartavyam |
atha svāhorātreṣṭajyā dvādaśaguṇā viśuvatkarṇena bhaktā iṣṭaśaṅkuḥ bhavati | athavā
caradlena adhikonaghaṭikājyām
caradalajyāviparyayaniṣpannām, lambakaguṇitām svāhorātreṇa samguṇya
trijyāvargeṇa [vibhajya] śaṅkulabdhīḥ | athavā tām dvādaśaguṇasvāhorātreṇa
samguṇya viśuvatkarṇaguṇavyāsārdhena bhajet | phalam śaṅkuḥ |

divasagataghaṭikānayane ca śaṅkunā guṇitam vyāsārdham
śaṅkucchāyāvargayutimūlena bhaktam bṛhacchaṅkuḥ bhavati | trijyāguṇitah
lambakabhaktah svāhorātreṣṭajyā labhyate | tena uttaragole kṣitijyā śodhyate, dakṣiṇe
kṣipyate | tataḥ vyāsārdhena hatvā svāhorātrārdhena bhajet | labdhasya kāṣṭham
uttaragole caradalayutam dakṣiṇe hīnam dinagataśeṣaprāṇāḥ [bhavanti | taiḥ] prāgvat
ghaṭikāḥ || 28 ||

[śaṅkvagram]

śaṅkvagrapradarśanāya āha ā

viśuvajīvāguṇitah sveṣṭah śaṅkuḥ svalambakena hr̥taḥ |
astamayodayasūtrāt dakṣiṇataḥ sūryaśaṅkvagram || 29 ||

sveṣṭaśaṅkuḥ iṣṭakālotpannaśaṅkuḥ, viśuvajīyyayā aksajīvayā guṇitah lambakena
bhaktaḥ astodayasūtrāt dakṣiṇataḥ sūryaśaṅkvagram bhavati | śaṅkoḥ agram
antarālam śaṅkumūlāt samottarāvagāhisūtram yāvat astamayodaya[sūtra]m iti |

kṣitijamaṇḍale prākṣvastikāt dakṣiṇam uttaram vā arkāgrākāṣṭhatulyāntare sūtrasya
ekam agram badhvā, dvitīyam agram tāvat [arkāgrākāṣṭhatulyāntare] eva aparabhāge
badhnīyāt | tat pūrvāparāyatam udayāstasūtram | tasya sūtrasya śaṅkutalasya antare
śaṅkvagram | śaṅkumūlāt bhūmadhyam yāvat sūtram dṛgjyā | bhūmadhyāt upari
śaṅkumastakaprāpi yat sūtram karṇaḥ vyāsārdham iti || 29 ||

[arkāgrā]

arkāgrānayanāya āha ā

paramāpakramajīvām iṣṭajyārdhāhatām tataḥ vibhajet |
jyā lambakena labdhārkāgrā pūrvāpare kṣitije || 30 ||

paramāpakramajyā caturviṁśatibhāgajyā 1397 | tām iṣṭasya raveḥ bhujajyayā guṇitām
[kr̥tvā] lambakena vibhajet, [labdhā jyā] arkāgrā bhavati | iyati adhvani viśuvataḥ
uttareṇa dakṣiṇena vā raviḥ udeti, pūrvāpare ca kṣitijamaṇḍalapradeśe || 30 ||

[samaśaṅkuḥ]

samamaṇḍalaśaṅkvānayanāya āha ā

sā viśuvajjyonā cet viśuvadudaglambakena saṅguṇitā |
viśuvajjyayā vibhaktā labdhah pūrvāpare śaṅkuḥ || 31 ||

sā iti anena apakramajyā gr̄hyate | uttaragole viśuvajjyātulyā krāntijyā [yadā] bhavati,
tadā madhyāhne eva savitā samamaṇḍalam viśati | viśuvajjyā [yadā] krāntikāṣṭhajyayā
ūnā [tadā] samamaṇḍalāt uttareṇa yāti | [krāntikāṣṭhajyā yadā] viśuvajjyayā ūnā tadā
samamaṇḍalam viśati | [krāntikāṣṭhajyā] yadā ūnā viśuvajjyayā, tadā [pūrvānītā arkāgrā]
lambakena guṇitā viśuvajjyayā bhaktā samamaṇḍalaśaṅkuḥ bhavati |
pūrvasamamaṇḍalena aparasamamaṇḍalena [ca] kṣitije arkāgrāntare
astamayodayasūtram badhvā arkākrāntarāśibhāgapradeśah samapūrvāparamaṇḍale
yatra lagnam prāgbindutah tat samamaṇḍalacāpam tathā gole bhramayet yathā
kṣitijādhobhāge samamaṇḍale tāvati antare lagnam bhavet | tayoḥ
samamaṇḍalabindvoh antare sūtram badhvā tadardham śaṅkuḥ pūrvavat eva
pūrvāpararekhāśprk bhavati | śaṅkoh uttareṇa astamayodayasūtram yāvat antaram
śaṅkvagram
arkāgrātulyam | samamaṇḍalaśaṅkuḥ akṣajyayā guṇitah paramakrāntijyābhaktah
sūryabhujaṇyā bhavati | [sūrye meṣādige] tatkāṣṭham ādityah, karkaṭakādige
ṣaḍrāśiviśuddham, tulādige ṣaḍrāśiyutam, makarādige cakraviśuddham raviḥ bhavati |

chedyake api ā samāyām bhūmau vṛttam ālikhya dikcihnitam kṛtvā sūryabimbodaye
aste ca pūrvāparayoh bindū kṛtvā pūrvāpararekhāyāḥ dakṣiṇe [madhyāhnanaṭajyātulye
antare] tṛṭīyam bindum prakalpya bindutrayāvagāhi matsyadvayena vṛttam ālikhet | tat
arkabhramavṛttam | arkāgrāgre savitā uditah tadvṛttānusāreṇa samamaṇḍalam
avagāhya dakṣiṇena natajyātulye antare madhyāhnām kṛtvā krameṇa aparabhāge
samamaṇḍalāt niṣkrāntah aparāgrāgre
astam eti | arkabhramavṛttasya prāgapararekhāyāḥ yatra sampātah tatra samamaṇḍale

praveśah | samamaṇḍale tu madhyam yāvat antaram samamaṇḍalaśaṅkucchāyā
bhavati | dakṣiṇagole samamaṇḍalāt dakṣiṇena yāti | [tadā] samamaṇḍalasya
praveśābhāvah || 31 ||

[madhyāhnaśaṅkuḥ]

madhyāhnaśaṅkucchāyayoḥ ānayanāya āha ā

kṣitijāt unnatabhāgānām yā jyā sā paraḥ bhavet śaṅkuḥ |
madhyāt natabhāgajyā chāyā śaṅkoḥ tu tasya eva || 32 ||

kṣitijāt iti samadakṣiṇottarasvastikapradeśāt ye unnatabhāgāḥ golamadhyasthite ravau
lakṣitāḥ teṣām yā jyā sā paramaḥ śaṅkuḥ bhavati | yā madhyāt natabhāgajyā sā
paramaśaṅkoḥ chāyā syāt | iṣṭamadhyāhne raveḥ apakramabhāgāḥ akṣabhbāgeṣu
dakṣiṇagole prayojayet | uttare gole viyojayet | te natabhāgāḥ bhavanti | candrasya
vikṣepayutaviyutāḥ natabhāgāḥ bhavanti, yataḥ vimaṇḍale candraḥ | ete navateḥ
viśodhyante | śeṣam unnatabhāgāḥ | teṣām [jyā]
unnatabhāgajyā | athavā taddinasvāhorātrārdham kṣitijyayā svayā udagyāmye
viyutayutam [vyāsārdhaguṇam svāhorātrārdhabhaktam] dvādaśaguṇam
viśuvatkarṇahṛtam mahāśaṅkuḥ tadunnatajyā bhavati || 32 ||

[dṛkkṣepajyā]

dṛkkṣepapratipādanāya āha ā

madhyajyodayajīvāsamvarge vyāsadalahṛte yat syāt |
tat madhyajyākṛtyoḥ viśeṣamūlam svadṛkkṣepaḥ || 33 ||

madhyajyā ca udayajīvā ca madhyodayajīve | tayoḥ samvargaḥ parasparaguṇanam
vyāsadalahṛtam yat bhavati tasya madhyajyāyāḥ ca kṛtyoḥ viśeṣamūlam svakīyāḥ
dr̥kkṣepaḥ | svagrahaṇena tu ravičandrakakṣayoh bhinnah dr̥kkṣepaḥ || 33 ||

[dṛggatijyā]

dṛggatijyānayanāya āha ā

dṛgdṛkkṣepakṛtvīśeṣitasya mūlam svadṛggatiḥ kuvaśāt |
kṣitije svā dṛkchāyā bhūvyāśārdham nabhomadhyāt || 34 ||

dṛgjyādṛkkṣepakṛtyoḥ vivarasya mūlam svakīyā dṛggatiḥ bhavati | kuvaśāt bhūvaśāt
iyam bhavati | madhyajyodayajīvayoh samvarge vyāsadalahṛte yat tat madhyajyākṛtyoḥ
višeṣāt mūlam dr̥kkṣepaḥ hi bhavati | evam bhūvaśāt utpannatrijyāśāṅkuvargavišeṣāt
mūlam dṛgjyā bhavati | ataḥ bhūvaśāt utpanna[dṛgjyā]dr̥kkṣepaniṣpannatvāt kuvaśāt iti
ucyate | "kṣitije svā dṛkchāyā" iti atra tu "svā" iti anena svakīyadṛkkṣepadṛggatiḥ
abhidhīyete | bhūvyāśārdham 525

| kṣitijamāṇdale svā dṛkchāyā kasmāt utpannā? nabhomadhyāt | vyāśārdha[tulya]m etat
bhavati | tat yataḥ kudṛṣṭīvaśāt samamaṇḍalamadhyāt pūrvāparayoḥ diśoh dṛggatiḥ
[lambanam] ḥnam dhanam vā iti, tathā eva bhagolamadhyāt dakṣiṇottaradiśoh
dr̥kkṣepasya grahaṇena natīḥ vā syāt |

jyānām višeṣotpattim darśayati | [bhūmeḥ golākāratvāt] bhūvyāśārdha[tulya]m antaram
kṣitije sūryakakṣyāyām candrakakṣyāyām ca [bhavati] | sūryakakṣyotpannamadhyajyām
sūryakakṣyodayajyayā samguṇya trijyayā bhāgalabdhasya vargam madhyajyāvargāt
viśodhya mūlam ravikakṣyāyām dr̥kkṣepaḥ, tathā candrakakṣyotpannamadhyajyām

svodayajyayā samguṇya triyayā bhāgalabdhasya vargam svamadhyajyāvargāt
viśodhya mūlam candrakakṣyāyām dṛkkṣepaḥ
| sūryasvāhorātrādibhiḥ sādhitadṛgjyāvargāt sūryadṛkkṣepavargam viśodhya mūlam
sūryakakṣyāyām dṛggatijyā | candrasvāhorātrādibhiḥ sādhitadṛgjyāvargāt
candraṛkkṣepavargam viśodhya mūlam candrakakṣyāyām dṛggatijyā bhavati | evam
anyeśām api grahāṇām samamaṇḍalamadhyāt dṛggateḥ bhāvah | udaye
[sūrya]grahaṇe candrasya tāvadadhaḥsthitatvāt candrakakṣyāyām
sūryabimbakendrasūtrāt pūrveṇa candrabimbam natam lakṣyate | astamaye tu tathā
eva
aparataḥ | samabhūpradeśe sthitasya draṣṭuḥ vyāsārdhatulyayā dṛggatijyayā
bhūvyāsārdhatulyam dṛggatyantaram [= lambanam] | evam eva dakṣiṇottarakapālayoḥ
dṛkkṣepāntaram [= natih] | [tatra idam traīrāśikam] ā yadi vyāsārdhatulyayā dṛggatijyayā
bhūvyāsārdhayojanatulyam dṛggatyantaram [=lambanam] tadā
iṣṭakālotpannadṛggatijyayā kiyat iti | [punar ca traīrāśikam ā yadi] sphuṭayojanakarṇena
triyātulyāḥ kalāḥ labhyante, tadā dṛggati [= lambana]yojanaiḥ kiyatyah
iti | atra prathame traīrāśike triyā bhāgahāraḥ dvitīye guṇakāraḥ tulyatvāt [nāśe kṛte]
ravicantrayoh dṛggateḥ bhūvyāsārdham guṇakāraḥ sphuṭayojanakarṇah bhāgahāraḥ,
phalam liptāḥ | sūryaliptāḥ candraliptābhyaḥ viśodhya traīrāśikam ā yadi
[dinasphuṭa]bhuktyantarena ṣaṣṭih nādyah [labhyante, tadā] ābhiḥ liptābhiḥ kiyatyah iti |
labdham nādyah bhavanti, tāḥ dṛggati [=lambana]ghaṭikāḥ | pūrvakapāle pūrvataḥ
grahaḥ kakṣyāyām nataḥ | tasmāt prāgyogaḥ ataḥ
grahe apanīyante | aparakapāle parataḥ natatvāt lambanaghaṭikātulyakālena yogah
bhaviṣyati iti ataḥ prakṣipyante | evam etat karma tāvat kriyate yāvat aviśeṣah |

evam [ravicantrayoh] dṛkkṣepaliptāḥ prāgvat traīrāśikena jñātāḥ | yadi ravicantrayoh
madhya[jye] samadiksthe bhavataḥ tadā [ravicantrayoh] natiliptānām viśeṣah anyathā
yogaḥ | tataḥ avanatiḥ bhavati | tataḥ madhyagrahaṇacandrāt pātam viśodhya śeṣasya

dakṣinottarabhujajyā ardhapañcamena gunitā trijyābhaktā vikṣepah | avanativikṣepayoh
samadiśi yogah, bhinnadiśi viyogah [sphuṭavikṣepah] | sphuṭavikṣepah avanatiḥ iti
paryāyah | tayā ca avanatyā sthityardham

ānīya madhyatitheḥ viśodhya śeṣah sparśakālah | tena prāgvat lambanavidhiḥ |
sparśamadhyalambanaghaṭikāntareṇa sthityardham upacīyate | tat punar madhyakālāt
viśodhya asakṛt sthityardham utpādayet yāvat sthiram bhavati | mokṣe punar
prathamānītasthityardham madhyatithau prakṣipet | pūrvavat
mokṣalambanamadhyalambanaghaṭikāntareṇa sthityardham upacīyate | tat punar
madhyatithau prakṣipya pūrvavat lambanaghaṭikāḥ utpādyā tanmadhyalambanāntareṇa
sthityardham upacitam kṛtvā tat eva karma punar kriyate yāvat sthiram bhavati | evam
sthirīkṛtasthityardhasambandhinam sūryendugatikalābhogam
madhyagrahaṇasūryendoh sparśe viśodhayet mokṣe kṣipet | sparśamokṣakālikau
bhavataḥ |

atha prāgaparakapāladvaye api lambanayoḥ tayoh yogena yutam sthityardham
sphuṭam bhavati |

samāyāmavanau [vyāsārdhapramāṇena sūtreṇa] vṛttam ālikhya dikcihnitam kṛtvā
maṇḍalapūrvabhāge prāgapararekhāyāḥ uttareṇa dakṣinena vā udayajyākāṣṭhatulye
antare bindū kṛtvā bindudvayaśirasprksūtram prasārya rekha kuryāt udayajyā bhavati |
[punar] madhyam maṇḍalakendram kṛtvā madhyajyātulyasūtreṇa vṛttam bhrāmayet | tat
madhyajyāmaṇḍalam | triyāmaṇḍalaparidhibindudvayāt sūtradvayam madhyakendram
ānīya rekhadvayam kuryāt
| tat antarajyārdham madhyajyāmaṇḍale tathā eva pūrvāparataḥ uttareṇa dakṣinena vā
vyavasthāpyate | tat madhyajyāvargaviśeṣamūlam dṛkkṣepajyākoṭih
madhyajyāmaṇḍale bhavati |

[trijyāmaṇḍale pūrvāparayoḥ udayajyākāṣṭhatulye antare] bindū kṛtvā [vṛttakendrāt madhyāhna]natajyātulye antare dṛkkṣepabinduḥ dakṣiṇena [prakalpya] bindutrayeṇa matsyam utpādyā tanmukhapucchasprksūtrasampātāt bindutrayasprgvṛttam bhramayet | tat arkabhramavṛttam | tatra kṣitijāt ūrdhvam yatra pradeśe raviḥ tanmadhyakendrāntarālasūtram dṛgjyā karṇaḥ, sthānīyā dṛkkṣepajyā koṭiḥ, tadagrāt ārabhya dṛgjyāgram yāvat ravicīhnopalakṣitam tadantarālam dṛggatijyā sā pūrvāparā | evam viśiṣṭam tryaśram kṣetram niṣpādyate || 34 ||

[akṣadṛkkarma]

udayāstamayayoh vikṣepavaśāt ḥadhanatvapratipādanāya āha ā

vikṣepaguṇā akṣajyā lambakabhaktā bhavet ḥam udaksthe |
udaye dhanam astamaye dakṣiṇage dhanam ḥam candre || 35 ||

akṣajyā vikṣepaguṇā lambakabhaktā phalam liptāḥ | uttaravikṣepe udayasthitacandre ḥam, astamaye dhanam | yāmye vikṣepe udayasthe candre dhanam, astamaye ḥam iti | ḥadhanayuktī ravicaradalaphalopapattitulyā || 35 ||

[ayanadṛkkarma]

ayanavaśāt ḥadhanatvapratipādanāya āha ā

vikṣepāpakramaguṇam utkramanam vistarārdhakṛtibhaktam |
udagṛḥadhanam udagayane dakṣiṇage dhanam ḥam yāmye || 36 ||

vikṣepaḥ ca apakramah ca vikṣepāpakramau | [vikṣepāpakramau guṇau yasya tat

vikṣepāpakramaguṇam | vikṣepaḥ tātkālikah grhyate, apakramah ca paramāpakramah |
utkramanam utkramajyām] vikṣepena paramāpakramena guṇitām
rāśitrayayutacandrasya utkramajīvām iti arthaḥ | katham rāśitrayayutacandrasya tat
utkramanam? utkramanagrahaṇāt rāśitrayakṣepaḥ avagamyate |
[rāśitrayayutacandrasya] utkramajyām guṇayet | vyāsārdhakṛtyā bhajet | phalam
liptāḥ udagvikṣipte uttarāyaṇe ḥnam dakṣine dhanam | tat eva phalam dakṣine ayane
uttaravikṣipte dhanam, ḥnam yāmye, vikṣepe dakṣine ḥnam bhavet iti | ḥne dhane yuktiḥ
api | yasmāt tulyadigvikṣepāyanayoh grahaḥ tāvat adhikah prāpyate,
udayāstamayakṣitijayoh viśodhyate; bhinnāyanavikṣepayoh tāvat hīnah iti kṣipate |
sarvagrahāṇām svodayāstamayayoh idam karma pravartate | na
madhyāhnārdharātrayoh || 36 ||

[candrādisvarūpam grahaṇakāraṇam ca]

candrādisvarūpavyāvarṇanāya āha ā

candraḥ jalām arkaḥ agniḥ mṛdbhūccāyā api yā tamāḥ tat hi |
chādayati śāśī sūryam, śāśinam mahatī ca bhūcchāyā || 37 ||

yat etat candramāṇḍalam tat pratyakṣena jalām, vivasvān uṣṇasvabhāvāt agniḥ, bhūḥ
pr̄thivī mṛṇmayī, bhūcchāyā tamāḥ svabhāvāt iti | śāśī candraḥ sūryam chādayati |
uparisthitāḥ sūryāḥ adhaḥsthitena candramasā chādyate | mahatī ca bhūcchāyā
śāśinam chādayati | gr̄hakabhedāḥ ca anayoḥ asti, yataḥ kucchāyā viśālā nyūnah
śāśī, śāśī nyūnah viśālāḥ dinakṛt || 37 ||

[grahaṇamadhyakālah]

kadā grahaṇe bhavataḥ, tatpratipādanāya āha ā

sphuṭaśāśimāsānte arkam pātāsannah yadā praviśati induḥ |
bhūcchāyām pakṣānte tadā adhikonam grahaṇamadhyam || 38 ||

sphuṭaḥ śāśimāsaḥ sphuṭaśāśimāsaḥ, tasya ante parisamāptau amāvāsyāyām arkam
ādityam, pātāsannah vikṣepamārgagatyā pātāsannah, yadā praviśati induḥ yadā
arkagrahaṇam bhavati | [pakṣānte paurṇamāsyante pātāsannah induḥ yadā]
bhūcchāyām praviśati | tadā adhikam ūnam vā grahaṇamadhyam bhavati | yataḥ
pūrvakapāle grahaṇamadhyam adhikam bhavati sphuṭatithicchedajanitam tena tatra
lambanaghaṭikāḥ viśodhyāḥ tāvatā kālena atītavāt
grahaṇamadhyasya | aparakapāle grahaṇamadhyam ūnam bhavati
sphuṭatithicchedajanitam tena tatra lambanaghaṭikāḥ kṣipante, bhāvitvāt
grahaṇamadhyasya || 38 ||

[bhūcchāyādairghyam]

bhūcchāyāpramāṇam āha ā

bhūravivivaram vibhajet bhūguṇitam tu ravibhūviśeṣena |
bhūcchāyādīrghatvam labdham bhūgolaviṣkambhāt || 39 ||

bhuvaḥ raveḥ ca antaram bhūravivivaram, raviyojanakarṇaḥ 459585, bhūguṇitam
bhūvyāsena 1050 guṇitam, ravibhuvoh viśeṣena ravibhuvoh vyāsayoh 4410, 1050,
antareṇa 3360 vibhajet | tat bhūgolacchāyādīrghatvam bhavati 143620
bhūgolaviṣkambhāt prabhṛti |

atra idam pradīpacchāyākarma | ravivyāsaḥ pradīpaḥ bhujā, bhūvyāsaḥ śaṅkuḥ,
ravibhūvyāsayoḥ antaram ravibhūvyāsaviśeṣaḥ, raviyojanakarṇaḥ
śaṅkuṣpradīpacchāyayoḥ antaram iti pradīpacchāyākarmasūtranibandhanam |

upapattiḥ pradīpacchāyākarmaṇā eva | ravibhūgolavṛttapārśvayoḥ sūtradvayam tathā
sūryabhūvyāsasūtradvayam ekatra badhnīyāt | bhūcchāyā kramena apacīyamānā
bhūviṣkambhāt lakṣyate || 39 ||

[tamasaḥ viṣkambham]

candrakakṣyāyām bhūcchāyānayanāya āha ā

chāyāgracandravaram bhūviṣkambheṇa tat samabhyastam |
bhūcchāyayā vibhaktam vidyāt tamasaḥ svaviṣkambham || 40 ||

bhūchāyāgrāt ārabhya candram yāvat antaram chāyāgracandravaram |
bhūcchāyādairghyam 143620 cindrakarṇena 34377 anena hīnam 109243
chāyāgracandravaram jātam, bhūviṣkambheṇa 1050 gunitam bhūcchāyādairghyena
143620 vibhaktam labdham tamasaḥ viṣkambhaḥ 689 svagrahaṇe cindrakakṣyāyām
bhūcchāyāviṣkambhaḥ bhavati |

yadi cindrayojanakarṇena vyāsārdham 3439 labhyate tadā tamoviṣkambhārdhena kiyat
iti labdham [tamoviṣkambhārdha]liptāpramāṇam 800 | 19 || evam
svakīyasphuṭayojanakarṇābhyaṁ raviindrayoḥ vyāsaliptānayanam | ravivyāsaḥ 4410
vyāsārdha 3438 gunitah raviyojanakarṇa 457585 bhaktaḥ ravibimbakalāḥ 33 | 00 ||
cindravyāsaḥ 315 vyāsārdha 3438 gunitah cindrayojanakarṇa 34377 hṛtaḥ
candrabimbakalāḥ 31 | 10 || 40 ||

[sthityardhānayanam]

sthityardhapratipādanāya āha ā

tacchaśisamparkārdhakṛteḥ śaśivikṣepavargitam śodhyam |
sthityardham asya mūlam jñeyam candrārkadinabhogāt || 41 ||

chādyachādakayoh samparkārdham mānaikyārdham iti arthaḥ | tasya kṛtiḥ
tacchaśisamparkārdhakṛtiḥ | tasyāḥ śaśinah vikṣepavargitam śodhyam | grahaṇadvaye
api candrāt vikṣepaḥ iti | ravigrahaṇe avanatiyutaviyutah sphaṭavikṣepaḥ grhyate | tasya
mūlam sthityardham bhavati | katham? candrārkadinabhogāt |
candrārkadinabhogaśabdena candrārkadinabhuktih grhyate | tayoḥ anulomagatikayoh
dinagatyantareṇa trairāśikam karma ā yadi raviśāsigativiśeṣeṇa
ṣaṣṭih nādyah labhyante, [tadā] sthityardhaliptābhiḥ kiyatyah iti sthityardhaghaṭikāḥ
labhyante || 41 ||

[vimardārdhānayanam]

evam vimardārdham āneyam | katham?

candravyāśārdhonasya vargitam yat tamomayārdhasya |
vikṣepakṛtivihīnam tasmāt mūlam vimardārdham || 42 ||

iti etasmāt | [sthityardham] titheḥ sparśe śodhyam mokṣe deyam, ravicandrapātāḥ api
sparśamokṣakālikāḥ sthityardhaghaṭikābhiḥ kṛtvā punar sparśamokṣayoh vikṣepau,
tābhyām sthityardhe ubhe yāvat aviśeṣam |

gaṇitakarmanā upapattiḥ dr̥syate | grāhyabimbamānārdhena vṛttam ālikhet | tat
grāhyabimbam | tataḥ mānaikyārdhatulyena karkaṭakena tena eva kendreṇa aparam
vṛttam ālikhet | tat grāhyagrāhakasamparkārdhamāṇḍalam | tataḥ
dakṣinottararekhāyām yathādiśam kendrāt uttareṇa dakṣiṇena vā vikṣepatulyam sūtram
prasārya bindum kuryāt | tanmatsyavidhinā pūrvā[parām rekhām kuryāt |
tatsamparkārdhamāṇḍalasampātāt kendraprāpiṇīm rekhām nayet
| evam ardhāyatacaturasram kṣetram utpadyate | tatra samparkārdham karṇah,
vikṣepaḥ ca bhujā | tadvargaviśeṣamūlam koṭih sthityardham iti | yadā
grāhyabimbārdhonagrāhakabimbārdhatulyam grāhyagrāhakayoh kendrāntarālam, tadā
grāhyagrāhakabimbārdhaviśeṣah karṇah, vikṣepaḥ eva bhujā | tadvargaviśeṣamūlam
koṭih vimardārdham iti || 42 ||

[candrasya agrastamānam]

grastaśeṣapramāṇānayanāya āha ā

tamasah viṣkambhārdham śaśivīṣkambhārdhavarjitam apohya |
vikṣepāt yat śeṣam na gṛhyate tat śāśāṅkasya || 43 ||

śaśivīṣkambhārdhavarjitam tamasaḥ viṣkambhārdham candravikṣepāt apohya | yat
śeṣam tat candrasya na chādyate | grahanāmadhye uttareṇa dakṣiṇena vā yāvat eva
vikṣepaḥ, tadā tāvat eva tayoḥ kendrāntarālam bhavati | yadā punar vikṣepaḥ, tasmāt
śāśitamasah viṣkambhārdhaviśeṣāt adhikah bhavati, tadā tāvatpramāṇam eva
bimbakendrāntarālasya dvīṭya pārśvataḥ candrabimbam tamomadhyāt niṣkrāntam
lakṣyate | yāvān bhāgaḥ candrasya na gṛhyate
tam candrabimbāt viśodhya śeṣam grāsapramāṇam syāt | candravat arke api || 43 ||

[iṣṭakālikagrāsaḥ]

iṣṭakālagrāsapratipādanāya āha ā

vikṣepavargasahitāt sthitimadhyāt iṣṭavarjitāt mūlam |
samparkārdhāt śodhyam śeṣaḥ tātkālikaḥ grāsaḥ || 44 ||

vikṣepavargaḥ tena sahitāt, sthitih sparśāt ārabhya yāvanmokṣaḥ, tasya madhyam
sthityardham, iṣṭakālavarjitam iṣṭavarjitam, tasmāt | yat mūlam [tat] samparkārdhāt
śodhyam mānaikyārdhāt viśodhyam | śeṣaḥ tātkālikaḥ grāsaḥ bhavati |

sthityardham iṣṭakālahīnam bhuktyantaragūṇam ṣaṣṭiḥṛtam liptāḥ | vargaḥ tāvataḥ
vikṣepasya liptātmakasya varge yuktvā mūlīkriyate, mūlam karṇaḥ | [tāvatkarṇam
mānaikyārdhāt viśodhyā śeṣaḥ tātkālikaḥ grāsaḥ bhavati ||] tāvatā karṇena praviṣṭaḥ
grāhakaḥ || 44 ||

[akṣavalanam ayanavalanam ca]

valanajyāpratipādanāya āha ā

madhyāhnotkramaguṇitah akṣaḥ dakṣiṇataḥ ardhavistarahaṛtaḥ dik |
sthityardhāt ca arkendvoḥ trirāśisahitāyanāt sparśe || 45 ||

madhyāhnāt prabhṛti utkramāḥ madhyāhnotkramāḥ | madhyāhnatīthyanṭarālaghaṭikā
madhyāhnaśabdena ucyate | tatra prākkapāle tīthīghaṭikā dinārdhāt viśodhyā,
aparākapāle tebhyāḥ dinārdham | madhyāhne iti upalakṣaṇam | tathā ca indugrahaṇe

madhyarātritihyantarālaghaṭikāḥ grhyante | tāḥ ṣadguṇāḥ bhāgāḥ teṣām utkramajyā,
tayā akṣajyā dakṣiṇataḥ vyavasthitā guṇanīyā, ardhavistareṇa vyāsārdhena bhaktā dik
bhavati | dakṣiṇataḥ iti aparakapālam
adhikṛtya utktam ācāryeṇa, yataḥ aparakapāle pūrvabhāgah dakṣiṇena valati,
aparabhāgah uttareṇa; prākkapāle punar pūrvabhāgah uttareṇa, aparabhāgah
dakṣiṇena valati | evam bimbasya pūrvāparabhāgah uttareṇa dakṣiṇena valati, yataḥ
dikśabdena valanam ucyate | yatra candraḥ bhūcchāyāyām praviśati tatra candraśimbe
khaṇḍyamāne tadvalanam prākkapāle candraśimbaṇḍapūrvabhāge uttareṇa avatiṣṭhate,
aparabhāge dakṣiṇena | aparakapāle viparītam |

vikṣepaḥ ravigrahaṇe yathādiśam eva bhavati | yadā punar bhūcchāyā grāhakatvena
kalpitā tadā vikṣepasya digviparyayah |

sthiteḥ ardham sthityardham, vikṣepaḥ | yataḥ sthiteḥ ardham vikṣepavaśāt bhavati,
tena sthityardhaśabdena vikṣepaḥ ucyate | tasmāt vikṣepavaśāt dvitīyavalanānayanam
ā arkendvoḥ iti | arkaḥ ca induḥ ca arkendū, tayoḥ arkendvoḥ trirāśisahitayoḥ yat
ayananam | ayanaśabdena krāntih, trirāśisabdena jyā utkrameṇa grāhyā | trirāśisahitau
yadā ravicandrau cakrārdhāt ūnau bhavataḥ tadā [pūrvakapāle] uttaram digvalanam |
candrārdhāt adhikau tadā [pūrvakapāle]
dakṣiṇam digvalanam | utkramajyā parakrāntiguṇā triyāhṛtā krāntivalanajyā |
tadbimbapūrvabhāge uttareṇa uttaram, dakṣiṇena dakṣiṇam | aparakapāle tu
[vyatyayena] diksādhanam kartavyam |

samamaṇḍalamadhyāt dakṣiṇena akṣatulye antare pūrvāparāyatamaṇḍalasya
[nādīmaṇḍalasya] yat antaram tat akṣavalanam | tat madhyāt utkrameṇa upacīyate |
etat ānayanam ā samamaṇḍalamadhyāt natasya utkramajyayā kartavyam |
pūrvakapāle karṇagatyā bimbapūrvabhāgah uttareṇa pratibhāsate, aparabhāgah

dakṣiṇena | parakapāle bimbapūrvabhāgah dakṣiṇena aparabhāgah uttareṇa | iti gole
pradarśayet | ayanavalanam tu uttaradakṣiṇāyanādau bhinnatvena
pratibhāsate, meṣādau uttaram, tulādau dakṣiṇam | evam akṣavalanatrayeṇa
parilekhaḥ kriyate |

prathamam samabhūmau grāhyamaṇḍalam likhet | tat kendrāt eva
samparkārdhamamaṇḍalam [vyāsārdhamamaṇḍalam ca likhet] | vyāsārdham iṣṭacchedena
chinnam kartavyam | [vyāsārdhamamaṇḍalam] pūrvāparadakṣiṇottaradigāṅkitam [kāryam]
| akṣāyanavalane kāṣṭikṛtya tulyadigyogaḥ bhinnadigviślesaḥ [ca kāryaḥ] |
vyāsārdhamamaṇḍale dakṣiṇena uttareṇa vā apamaṇḍalagatyā [paścimabhāge] valanam
vidhāya bindum kuryāt | tataḥ kendraprāpi sūtram nayet | tasya
sūtrasya mānaikyārdhaharidheḥ yatra sampātaḥ tasmāt uttareṇa dakṣiṇena vikṣepam
ca apagatyā paridhyanusāreṇa nītvā agre bindum kuryāt | tasmāt bindoḥ kendraprāpi
sūtram nayet | yatra grāhyabimbam sprśati tatra raveḥ aparabhāge sparśaḥ, candrasya
bimbe pūrvabhāge sparśaḥ | [grāhakabimbakendraḥ tu] samparkārdhamamaṇḍale bhavati
| ravigrahaṇe sparśavalanam digvaśena mānaikyārdhaharidhau pūrvavat | tadagrāt
vikṣepam yathādiśam, candragrahaṇe viparītam
prasārayet | tadagrāt kendraprāpi sūtram nayet | yatra grāhyaparidhim sprśati tatra
sparśaḥ | mokṣavalanam ravigrahaṇe pūrvabhāge, candragrahaṇe aparabhāge
vyastam prasāryate | tataḥ mokṣavikṣepam yathādiśam savituh, candrasya viparītam
prasārya bindum kuryāt | tadagrāt kendraprāpisūtram nayet | yatra grāhyaparidhim
sprśati tatra moksah |

madhyagrahaṇe madhyagrahaṇavalanam vikṣepavaśāt | samparkārdhamamaṇḍale
dakṣiṇavikṣepe uttaram valanam pūrveṇa, dakṣiṇam pareṇa; uttare vikṣepe, uttaram
valanam pareṇa, dakṣiṇam pūrveṇa praśārayet | [ravigrahaṇe viparītam kāryam |]
tadagrāt yāmya uttararekhā kāryā | tanmānaikyārdhavṛttasampātāt kendraprāpi sūtram

nītvā rekhām kuryāt | rekhānusāreṇa kendramadhyāt savituh yathādiśam, candrasya
viparītam, vikṣepam prasārya tadaग्रे
bindum kuryāt | tasmāt grāhakabimbavyāsārdhena [grāhyabimbam] khaṇḍayet |
grāhyabimbam tāvat grastam dṛṣyate |

iṣṭaparilekhe, pragrahaṇamadhyamokṣavikṣepabindutrayeṇa matsyadvayam utpādyā
tanmukhapucchaniṛgatasūtrasampātāt bindutrayasprksūtreṇa vṛttam bhrāmayet | [sa]
grāhyabimbakendramārgaḥ | tatra iṣṭagrāsakarṇapramāṇam [sūtram] kendrāt
yathādiśam grāhakamārgābhīmukham prasārya yatra grāhakamārgam sprśati tasmāt
grāhakārdhena parilekhāt tatkālakhaṇḍagrahaṇam dṛṣyate |

nimīlanonmīlanayoḥ vimardārdhaliptābhiḥ iṣṭagrāsavat karṇam ānīya iṣṭagrāsavidhinā
nimīlanonmīlane darśayitavye || 45 ||

[grāhyabimbasya varṇaḥ]

[grāhyabimba]varṇapratipādanāya āha ā

pragrahaṇānte dhūmraḥ khaṇḍagrahaṇe śaśī bhavati kṛṣṇaḥ |
sarvagrāse kapilaḥ sakṛṣṇatāmraḥ tamomadhye || 46 ||

pragrahaṇe sparśe, ante mokṣe, śaśī dhūmraḥ bhavati | khaṇḍagrahaṇe kṛṣṇaḥ bhavati
| khaṇḍagrahaṇam pragrahaṇāt ardhāsannam sarvaiḥ gṛhyate | sarvagrāse kapilaḥ
sakṛṣṇatāmraḥ tamomadhye | yadā sakalam bimbam channam bhavati tadā
sarvagrāsaḥ, tatra kapilavarṇaḥ | tasmāt parataḥ vimardakālāt madhyam yāvat
sakṛṣṇatāmraḥ bhavati | sūryagrahaṇe punar sarvadā kṛṣṇavarṇaḥ || 46 ||

[anādeśyam ravigrahaṇam]

grahaṇopalabdhipradarśanāya āha ā

sūryenduparidhiyoge arkāṣṭamabhāgah bhavati anādeśyah |
bhānoḥ bhāsvarabhāvāt svacchatanutvāt ca śāśiparidheḥ || 47 ||

sūryenduparidhiyogaḥ sūryagrahaṇam | atra arkabimbasya aṣṭamabhāgah channah api
anādeśyah | bhānoḥ bhāsvarabhāvāt | tīkṣṇāṁśoh bhāsvarasvarūpatvāt iti | candrasya
api svacchatanutvāt aṣṭamabhāgah bimbasya channah api anādeśyah iti |
grāhyabimbasya aṣṭamabhāgah mānaikyārdhāt viśodhya śeṣah iṣṭagrāsakarṇah |
tadvargāt sphuṭavikṣepavargonāt mūlam iṣṭonasthitidalaliptāḥ bhvanti | tāḥ ṣaṣṭiguṇāḥ
gatyantarahṛtāḥ ghaṭikāḥ | tāḥ sparśe tithyante
viśodhayet | mokṣe api tithyante yojayet | tau sparśamoksakālau bhavataḥ || 47 ||

[grahasādhanopāyah]

grahasādhanopāyapradarśanārtham āha ā

kṣitih aviyogāt dinakṛt ravīnduyogāt prasādhayet ca indum |
śaśitārāgrahayogāt tathā eva tārāgrahāḥ sarve || 48 ||

kṣitih ca raviḥ ca, tayoḥ yogaḥ kṣitiraviyogaḥ | tasmāt ravim sādhayet | ravīnduyogāt
indum sādhayet | śaśitārāgrahayogāt ca sarve tārāgrahāḥ ca sādhaniyāḥ |

dr̥gucchritam salilasamīkṛtabhūpradeśamaṇḍalakam cakrabhāgāṇkitavṛttaparidhim
dikcatusṭayacihnitam kārayet | tasya aparabhāge sthitāḥ sāmvatsaraḥ prākparidhau

āsaktam udgacchantam sūryam laksayet | tataḥ tatpradeśe cihnam kṛtvā tiṣṭhet yāvat
anyodayam | tatra api yatra paridhipradeśe sūryah uditaḥ laksyate tatra cihnam
nidadhyāt | evam udayatrayeṇa catuṣkeṇa vā antaraghāṭikāḥ yantrādinā laksayitavyāḥ |
tāḥ ravibhuktayah ravyudayāntarāle bhavanti
| tāḥ eva sphuṭaravibhuktiliptāḥ | madhyadinacchāyayoḥ vedhena tajjyādividhīnā
[ravidvayam ānayet |] tayoḥ antaram [vā] sphuṭaravibhuktih |

atha meṣādau pravṛtte savitari sūryodayāḥ gānyante yāvat meṣādim praviśati, te
ravibhūyogāḥ jāyante | evam samyak upalakṣyamāṇāḥ ravibhagaṇabhogे śatatravayam
pañcaṣaṣṭyā adhikam dinam bhavati 365 | ghaṭikāḥ pañcadaśa 15 | vighaṭikāḥ
ekatrimśat 31 | prāṇāḥ sārdhaikāḥ

3

2|

tāḥ krameṇa savarṇitāḥ upari bhāgāḥ 210389, chedāḥ 576 | evam etaiḥ amśaiḥ
śaṣṭasaptapañcacchedaiḥ ekaḥ arkabhagaṇaḥ | etaiḥ yagādimānam kriyate |

ravīnduyogaprasādhanāya sūryādhikrāntacandram upalakṣayet | punar dvītiyam evam
varṣam prati jāgareṇa dvādaśa ravīnduyogāḥ 12, catvāraḥ rāśayah 4, dvādaśa bhāgāḥ
12, ṣaṭcatvārimśat liptāḥ 46, catvārimśat viliptāḥ 40, aṣṭacatvārimśat tatparāḥ 48 |
ekena ravibhagaṇena yutāḥ ete savarṇitāḥ

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yugagatacandrabbagaṇāḥ traīrāśikena ā yadi ekena ravibhagaṇabhogena etāvantah

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candrabhagaṇāḥ labhyante, tadā yuga[ravibhagaṇa]bhogena anena 4320000 kiyantah
iti, labdham yuge candrabhagaṇāḥ 57753336 |

athavā candraśya iṣṭaśuklapratipat ārabhya pratidinam candrodayam upalakṣya binduḥ
kāryaḥ yāvat ravibhagaṇam | evam ravibhagaṇabhoge candrodayasamkhyāḥ jātāḥ

352

53

23

28

12

savarṇitāḥ

352 | 11532492

216000

etaiḥ traīrāśikam ā yadi ekasmin [ravi]bhagaṇabhoge etāvantah [candrodayāḥ]
bhavanti, [tadā yuga]ravibhagaṇabhoge kiyantah | prāgvat yuge candrodayāḥ jātāḥ
1524484164 | kṣitibhagaṇebhyāḥ 1582237500 śuddhāḥ yugacandrabhagaṇāḥ
57753336 |

śaśitārāgrahayogān śaśibhagaṇebhyāḥ viśodhya śeṣam iṣṭagrahasya bhagaṇāḥ |
varṣam prati jāgareṇa candraśaspatiyogāḥ bhagaṇāḥ 13, rāśayah 3, bhāgāḥ 12,
liptāḥ 25, viliptāḥ 33, tatparāḥ 36 | ete krameṇa savarnitāḥ jātāḥ

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yadi ekasmin ravibhagaṇe etāvantah

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guruśaśiyogāḥ labhyante, tadā yugaravibhagaṇe 4320000 kiyantaḥJiti, labdhāḥ
yugābde guruśaśiyogāḥ 57389112 candrabhagaṇebhyāḥ 57753336 viśodhya śeṣam
gurubhagaṇāḥ yuge jātāḥ 364224 | evam bhaumādīnām api ravibhagaṇabhogam yāvat
candreṇa saha yogān prasādhyā grahabhagaṇasādhanam kartavyam | mārgadarśanam
eva etat asmadādīnām aviṣayaḥ |

budhaśukrayoḥ śīghrasādhanam | prācyām astamitah paścāt yāvadbhiḥ dinaiḥ uditah
tāvatām dinānām ardhām udayadinebhyāḥ pātayet astamitadineṣu kṣipet | punar
prācyām yadā astamayah pratīcyām udayaḥ tadā anena eva vidhinā
niramśadinasiddhiḥ kāryā | tayoḥ ādyantaniramśayoḥ madhye śīghrakendrabhagaṇāḥ
bhavati | budhasya śīghrakendrabhagaṇadīnāni āsannāni 116, śukrasya 584 | etaiḥ
bhūdinebhyāḥ 1577917500 bhāgām datvā labdham
budhaśukraśīghrakendrabhagaṇāḥ bhavanti |

ravyucca[paridhi]sādhanam | madhyāhnacchāyayā ravim prasādhyā
taddinamadhyamaraviṇā višeṣya madhyame adhike ḥnam, dhanamūle | evam
pratidinam upalabhyā yāvat vardhamānam raviphalam sthīrbhavati, tatphalam
paramaphalam | tataḥ param hrāsam eṣyati | paramaphaladine madhyame arke
ṛṇaphalopalakṣite rāśitrayam śodhayet, śeṣam ravimandoccam | dhanaphalopalakṣite
rāśitrayam kṣipet, mandoccam bhavati | paramaphalajyā cakrāṁśahatā trijyāhṛtā
raveḥ paridhiḥ bhavati |

candroccaparidhiśādhanam | sūryāstamayāt kṛṣṇe pakṣe yāvatībhiḥ ghaṭikābhiḥ

candrodayaḥ bhavati ghaṭikāyantrasādhitābhiḥ tābhiḥ ṣadrāsiyutāt arkāt lagnam
svodayaiḥ tripraśnoktavidhinā kartavyam | sa sphuṭacandraḥ | tat
tātkālikamadhyamacandraviśeṣam māndaphalam dhanum ḥnam vā | evam
pratyaham upalakṣayet pūrvavat yāvat vardhamānaphalam sthīrbhavati | tataḥ ravivat
uccaparidhisādhanam | evam pratidinam kuryāt yāvat madhyamasphuṭayoh
na kiñcit antaram syāt | sa eva candraḥ taduccam bhavati |
taddinaparamaphalapātadinoccayoḥ antaram kṛtvā taddinaparamaphalārkayoḥ antaram
kāryam | tataḥ[trairāśikam] ā yadi anena gatyantareṇa etat uccāntaram, tadā
sūryabhagaṇaiḥ kim iti androccabhagaṇasiddhiḥ |

candrasya pātabhagaṇasādhanam | candragrahaṇe [sparśakālāt] madhyagrahaṇam
yāvat sthityardhaghaṭikāḥ candragrahaṇakālotpannāḥ tāḥ
sphuṭasūryaśāśibhuktyantareṇa guṇayet, ṣaṣṭyā vibhajet, sthityardhaliptāḥ syuḥ |
tadvargam samparkārdhavargāt viśodhya śeṣasya mūlam candravikṣepaḥ | sa
trijyāhataḥ khāgākṣibhaktah [270] kāṣṭhitah bhujacāpam | evam mokṣam api
[sthityardham] madhyagrahaṇāt jānīyāt | yadi prathamasthityardham mahat ojapade
grahaḥ bhavati, anyathā yugmapade syāt | yadi uttaravikṣepaḥ viṣamapade
bhujacāpam sphuṭam, yugmapade cakrārdhāt viśodhya bhavati | dakṣiṇavikṣepe
viṣamapade cakrārdham kṣipet, yugmapade cakrāt viśodhayet | sa bāhuḥ syāt | evam
svadhiyā śeṣam ca | evam anyat grahaṇakālikam bāhum utpādayet | ubhayoḥ antaram
sādhayet | grahaṇadvayakālāntarajā tatpātabhuktih | tataḥ candrapātabhagaṇasiddhiḥ |

athavā candrasya dinārdhacchāyā krāntim uktavat prasādhayet | tasyāḥ
taddinacandrakrāntyantaram vikṣepaḥ | śeṣam prāgvat iti |

budhasitayoḥ yāvatā rātrigatakālena astamayah jāyate tāvatā lagnam ṣadrāsiyutam
sphuṭaḥ budhaḥ śukraḥ ca | śeṣāṇām candravat ānayanam rātrigate kāle |

madhyasphuṭayoh antaram mandaphalayutavyutam śīghraphalam | punar pañcabhiḥ
ahobhiḥ phalasādhanam kartavyam | prākphalena saha viśleṣayet | evam tāvat
parīkṣayet yāvat vardhamānam śīghraphalam sthīrbhavati | evam svadhiyā abhyūhya
śīghrocca[paridhi]sādhanam | tārāgrahayogāntarāt
grahavikṣepasādhanam kartavyam | udayāstamayavakrānuvakraiḥ
śīghrabhagaṇasādhanam vidheyam | athavā graham yaṣṭyādiyantreṇa viditvā dvitīye
api dine tāvati eva kāle viddhyāt, tadantaram sphuṭabhuktih | sā madhyamabhukteḥ
yadā ūnā syāt tadā kakṣyāmaṇḍalāt upari grahah, adhikā cet tadā adhaḥ vartate |
tadbhūmadhyāntaram karnah | tadvaśāt paramālpatām paramādhikatām ca bhukteḥ
lakṣayet iti bhagaṇabhogam yāvat | bhagaṇabhogaḥ madhyamagatyā
eva bhavati | evam mandaphalasya paramādhikatām lakṣayitvā
paramamandakarṇavyāsārdhāntaram paramaphalam māndam bhavati || 48 ||

[sampradāyasaṃsmaraṇam]

bhagaṇādīnām pramāṇāni katham jñātāni ācāryeṇa tatpratipādanāya āha ā

sadasajjñānasamudrāt samuddhṛtam brahmaṇah prasādena |
sajjñānottamaratnam mayā nimagnam svamatināvā || 49 ||

sadasat sat asat | sat śubham, asat aśubham | jñānam jñāyate anena iti |
sajjñānottamaratnam sat jñānam tat eva uttamaratnam, utkṛṣṭam ratnam, jyotiḥśāstram |
nimagnam niśīnam | svamatināvā svakīyā matih (svamatiḥ), svamatiḥ eva nauḥ tayā
svamatināvā sadasajjñānasamudrāt samuddhṛtam iti || 49 ||

[pratikañcukakāriṇe daṇḍavidhānam]

śapathapratipādanāya āha ā

āryabhaṭīyam nāmnā pūrvam svāyambhuvam sadā nityam |
sukṛtāyuṣoh prāṇāśam kurute pratikañcukam yaḥ asya || 50 ||

āryabhaṭasya idam āryabhaṭīyam | kim tat? yadā eva atyantavipraśinasampradāyam
brahmaṇah prasādena vā svanāmadheyam | yaḥ pūrvam svāyambhuvam āśīt idānīm
āryabhaṭena prakāśitatvāt āryabhaṭīyam | svāyambhuvam tat sarvadā nityam |
svayambhuvā prāṇītam artham gṛhītvā ācāryāḥ śāstrāṇi racayanti |
sampradāyāvicchedāt tu saḥ arthaḥ jñātah eva | anyathā atīndriyārthānām katham
mānuṣamātraiḥ iyam yuktih kartum śakyate | asya pratikañcukam
pratibimbam yaḥ karoti tasya sukṛtasya āyuṣah ca prāṇāśam bhavati || 50 ||

[someśvarabhāṣyasya upasamhāraślokaḥ]

spaṣṭārthapratipādakam mṛdudhiyām sūktam prabodhapradam
tarkavyākaraṇādiśuddhamatīnā someśvareṇa adhunā |
ācāryāryabhaṭoktasūtravivṛtiḥ yā bhāskarotpāditā
tasyāḥ sārataram vikṛṣya racitam bhāṣyam prakṛṣṭam laghu ||

iti someśvaraviracitam āryabhaṭīyam bhāṣyam samāptam |

[bhāskarabhāṣyasya upasamhāraślokaḥ]

atīndriyārthapratipādakāni
sūtrāṇi amūni āryabhaṭoditāni |
teṣām aśakyaḥ arthaśatāṁśakah api

vaktum kutah asmatsadrśaiḥ aśeṣam ||

iti bhāskarasya kṛtau āryabhaṭatantrabhāṣye

golapādaḥ samāptah |